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- Cibils LA (see Cucco et al). 1989;161:916-20
- Clapp JF III. The effects of maternal exercise on early pregnancy outcome. 1989;161:1453-7
- Oxygen consumption during treadmill exercise before, during, and after pregnancy. 1989;161:1458-64
- (see Capeless and Clapp). 1989;161:1449-53
- Clark BA, Bissonnette JM, Olson SB, Magen RE. Pregnancy loss in a small chorionic villus sampling series. 1989;161:301-2
- Clark DA (see Michel et al). 1989;161:409-14
- Clark SL, Cotton DB. Is central venous pressure monitoring "contraindicated" in patients with severe preeclampsia? 1989;161:838-9 (Letter reply)
- , —, Lee W, Bishop C, Hill T, Southwick J, Pivarnik J, Spillman T, DeVore GR, Phelan J, Hankins GDV, Benedetti TJ, Tolley D. Central hemodynamic assessment of normal term pregnancy. 1989;161:1439-42
- Clarke-Pearson DL (see Berchuck et al). 1989;161:1247-52
- (see Soisson et al). 1989;161:1258-63
- Clare JN (see Nestler et al). 1989;161:1095-7 (Clin. opinion)
- Clyne LP (see Lockwood et al). 1989;161:369-73
- Coe AM (see Nicolini et al). 1989;161:924-7
- Cohen A (see Leiberman et al). 1989;161:257 (Letter)
- Cohen DL, Kessel RWI, McCullough LB, Apostolides AY, Heiderich KJ, Alden ER. Pelvic examinations by medical students. 1989;161:1013-4
- Cohen I (see Veille et al). 1989;161:1610-4
- Cohen M (see Petrikovsky et al). 1989;161:36-7
- Coira A (see Andreu et al). 1989;161:1424-5 (Letter)
- Collen D (see Ballegeer et al). 1989;161:432-6
- Collins EM (see Morales et al). 1989;161:568-72
- Collins JV (see Kingsland et al). 1989;161:381-2
- Colpoys MC (see Conrad et al). 1989;161:1065-72
- Conrad KP, Morganeli PM, Brinck-Johnsen T, Colpoys MC. The renin-angiotensin system during pregnancy in chronically instrumented, conscious rats. 1989;161:1065-72
- Cook EJ (see Macri et al). 1989;161:254-5 (Letter reply)
- Copel JA, Grannum PA, Green JJ, Belanger K, Hanna N, Jaffe CC, Hobbins JC, Kleinman CS. Fetal cardiac output in the isoimmunized pregnancy: a pulsed Doppler-echocardiographic study of patients undergoing intravascular intrauterine transfusion. 1989;161:361-5
- , —, —, —, Hobbins JC. Pulsed Doppler flow-velocity waveforms in the prediction of fetal hematocrit of the severely isoimmunized pregnancy. 1989;161:341-4
- Copeland KL, Carpenter RJ Jr, Fenolio KR, Ledbetter DH. Integration of the transabdominal technique into an ongoing chorionic villus sampling program. 1989;161:1289-94
- Corsan GH, Shelden RM, Kemmann E. Multiple gestation with intrauterine insemination and menotropin therapy. 1989;161:1751-2 (Letter)
- Coster B (see Lockwood et al). 1989;161:369-73
- Cotroneo M (see Caritis et al). 1989;161:32-5
- Cotton DB (see Clark and Cotton). 1989;161:838-9 (Letter reply)
- (see Clark et al). 1989;161:1439-42
- (see Lee et al). 1989;161:974-7
- (see Lee et al). 1989;161:1012-3
- (see Mari et al). 1989;161:1514-8
- (see Mari et al). 1989;161:1528-31
- Coulter S (see Walsh and Coulter). 1989;161:1586-92
- Couser RJ (see Ferrara et al). 1989;161:1114-8
- Cousins L (see Jacobson and Cousins). 1989;161:981-6
- Cowchock FS (see Wapner et al). 1989;161:1271-2
- Cox PJ (see Nicoll and Cox). 1989;161:177-8
- Craddock GB Jr (see Nunley et al). 1989;161:573-6
- Creasy RK (see Peaceman et al). 1989;161:771-4
- (see Thorp et al). 1989;161:600-5
- Cucco C, Osborne MA, Cibils LA. Maternal-fetal outcomes in prolonged pregnancy. 1989;161:916-20
- Curet LB (see Haning et al). 1989;161:1549-53
- Curran EM (see Nelson and Curran). 1989;161:1553-8
- Curran JS (see Resnick et al). 1989;161:184-7
- Cutter GR (see Goldenberg et al). 1989;161:271-7 (Clin. opinion)
- Czajkowski K (see Wójcicka-Jagodzińska et al). 1989;161:959-64
- Czeizel A, Lendvay A. Attempted suicide and pregnancy. 1989;161:497 (Letter)

D

- Dabinett LN (see Nunley et al). 1989;161:573-6
- d'Ablaing G III (see Steinleitner et al). 1989;161:1677-81
- Dahlman TC, Hellgren MSE, Blombäck M. Thrombosis prophylaxis in pregnancy with use of subcutaneous heparin adjusted by monitoring heparin concentration in plasma. 1989;161:420-5
- Daitoh T (see Mori et al). 1989;161:207-11
- Dalton HP (see Soper et al). 1989;161:562-8
- Damm P, Mølsted-Pedersen L. Significant decrease in congenital malformations in newborn infants of an unselected population of diabetic women. 1989;161:1163-7
- Daniell JF (see Baggish and Daniell). 1989;161:877-8
- Danskin FH, Neilson JP. Twin-to-twin transfusion syndrome: What are appropriate diagnostic criteria? 1989;161:365-9
- Davey DA, MacGillivray I. Semantic changes suggested in hypertensive disorders. 1989;161:1422-3 (Letter reply)
- Davidson SR (see Reid et al). 1989;161:229-33
- Davis JL (see Castro et al). 1989;161:1620-3
- Davis L (see Thurmond et al). 1989;161:83-5
- Dawood MY (see Hecht et al). 1989;161:1688-93
- Dawson MJ (see Noyesewski et al). 1989;161:282-8
- Day L (see Ross et al). 1989;161:1559-65
- Daya S. Optimal time in the menstrual cycle for serum progesterone measurement to diagnose luteal phase defects. 1989;161:1009-11

- , Gunby J, Kohut J. Semen predictors of in vitro fertilization and embryo cleavage. 1989;161:1284-9
- DeBruyn CS (see Chestnut et al). 1989;161:1571-5
- de Haan J (see van Huisseling et al). 1989;161:1061-4
- de las Heras P (see Quilez et al). 1989;161:1426-7 (Letter)
- Delgado C (see Matteri et al). 1989;161:1704-9
- Delgado E (see Quilez et al). 1989;161:1426-7 (Letter)
- Delgado G (see Smith et al). 1989;161:911-5
- Delke I, Minkoff HL. Perinatal death as a result of social factors. 1989;161:1748 (Letter reply)
- (see Feinkind et al). 1989;161:765-70
- Demedeiros N (see Poissonnier et al). 1989;161:709-13
- Dennis J, Johnson A, Mutch L, Yudkin P, Johnson P. Acid-base status at birth and neurodevelopmental outcome at four and one-half years. 1989;161:213-20
- Denny ME (see Stumpf and Denny). 1989;161:1375-84 (Curr. dev.)
- de Regt RH (see Berkowitz et al). 1989;161:146-9
- (see Stiller et al). 1989;161:930-3
- DeRosa R, Lenke RR, Kurczynski TW, Persutte WH, Nemes JM. In utero diagnosis of benign fetal macrocephaly. 1989;161:690-2
- DeRouen T (see Paavonen et al). 1989;161:128-35
- Deter RL (see Mari et al). 1989;161:1528-31
- (see Stefos et al). 1989;161:179-83
- Devore LD, Searle NA, Ruedrich DA, Castillo RA, Metheny WP. The effects of vibroacoustic stimulation on baseline heart rate, breathing activity, and body movements of normal term fetuses. 1989;161:524-9
- (see Ruedrich et al). 1989;161:188-92
- DeVore GR (see Brar et al). 1989;161:1519-22
- (see Clark et al). 1989;161:1439-42
- De Wilde RL. Recurrence of functional ovarian cysts after laparoscopic fenestration. 1989;161:839 (Letter)
- Dharmarajan AM (see Katz et al). 1989;161:1361-6
- (see Miyazaki et al). 1989;161:1709-14
- Diaz FG (see Rodriguez et al). 1989;161:666-9
- Dickerson JK. Study design for the Triphasic Randomized Comparative Trial. 1989;161:1392-6 (Symposium)
- Dijkhuizen HH (see Helmerhorst et al). 1989;161:1191-4
- Dinh TV (see Nagamani et al). 1989;161:1738-43
- Dirks D (see Small et al). 1989;161:323-9
- DiSaia PJ (see Sutton et al). 1989;161:309-12
- Divon MY, Girz BA, Lieblich R, Langer O. Clinical management of the fetus with markedly diminished umbilical artery end-diastolic flow. 1989;161:1523-7
- , —, Sklar A, Guidetti DA, Langer O. Discordant twins—a prospective study of the diagnostic value of real-time ultrasonography combined with umbilical artery velocimetry. 1989;161:757-60
- (see Chervenak et al). 1989;161:753-6
- (see Guidetti et al). 1989;161:91-3
- (see Langer et al). 1989;161:593-9
- (see Langer et al). 1989;161:646-53
- Dodson MG (see Minhas et al). 1989;161:1714-7
- Dodson WC, Hughes CL, Haney AF. Multiple gestation in therapy with intrauterine insemination and menotropin. 1989;161:1752 (Letter reply)
- Doody KJ, Carr BR. Aromatase in human fetal tissues. 1989;161:1694-7
- Dorchester W (see Gocke et al). 1989;161:111-4
- Dorsey JH (see Baggish et al). 1989;161:60-8
- Doursos TJ (see Macri et al). 1989;161:254-5 (Letter reply)
- Droegemueller W, Katta LR, Bright TG, Bowes WA Jr. Triphasic Randomized Clinical Trial: comparative frequency of intermenstrual bleeding. 1989;161:1407-11 (Symposium)
- (see Bowes et al). 1989;161:1402-7 (Symposium)
- Droste S (see FitzSimmons et al). 1989;161:1174-7
- Druschel CM (see Berg et al). 1989;161:86-91
- Druzin ML, Edersheim TG, Hutson JM, Bond AL. The effect of vibroacoustic stimulation on the nonstress test at gestational ages of thirty-two weeks or less. 1989;161:1476-8
- (see LaGuardia et al). 1989;161:303-6
- Dubin NH (see Katz et al). 1989;161:1361-6
- Duff P. Antibiotics for postcesarean endometritis. 1989;161:1087 (Letter)
- Dunlop W (see Robson et al). 1989;161:1273-8
- Durak EP (see Jovanovic-Peterson et al). 1989;161:415-9
- Dusik JM (see Farrell et al). 1989;161:628-33
- Dworetzky M. Allergic vaginitis. 1989;161:1752-3 (Letter)
- Dwyer JM (see Sanyal et al). 1989;161:446-53
- Dyson DC (see Ferguson et al). 1989;161:788-95
- E
- Eades C (see LaGuardia et al). 1989;161:303-6
- Easterling TR, Benedetti TJ. Techniques differ in use of Doppler ultrasonography. 1989;161:1748-9 (Letter)
- , —. Techniques differ in use of Doppler ultrasonography. 1989;161:1750 (Letter response)
- Economides DL, Nicolaides KH, Gahl WA, Bernardini I, Bottoms S, Evans M. Cordocentesis in the diagnosis of intrauterine starvation. 1989;161:1004-8
- , —, —, —, Evans MI. Plasma amino acids in appropriate- and small-for-gestational-age fetuses. 1989;161:1219-27
- (see Nicolaides et al). 1989;161:996-1001
- (see Panos et al). 1989;161:357-61
- Eddie LW, Sutton B, Fitzgerald S, Bell RJ, Johnston PD, Tregear GW. Relaxin in paired samples of serum and milk from women after term and preterm delivery. 1989;161:970-3
- Eder C (see Rando et al). 1989;161:50-5
- (see Sedlacek et al). 1989;161:55-9
- Edersheim TG (see Druzin et al). 1989;161:1476-8
- Egarter C, Husslein P. First successful intrauterine pregnancy after treatment of tubal pregnancy with prostaglandin $F_{2\alpha}$. 1989;161:904
- Egberts J, Wijnands JBG. Uselessness of the phosphatidylglycerol assay for prediction of lung maturity. 1989;161:1417-8 (Letter)
- Eggleston MK (see Keith et al). 1989;161:1305-13
- Egley C (see Winn and Egley). 1989;161:1419 (Letter)
- Ehrlich CE (see Sutton et al). 1989;161:73-5
- Elger WAG (see Puri et al). 1989;161:248-53
- Elias S (see Tipton et al). 1989;161:1546-8
- Elkins TE, Andersen HF, Barclay M, Mason T, Bowdler N, Anderson G. Court-ordered cesarean section: an analysis of ethical concerns in compelling cases. 1989;161:150-4
- Elliott JP. *Candida* warrants concern. 1989;161:503 (Letter)
- Ellrodt AG (see Madinger et al). 1989;161:657-62
- Emancipator K. Analytical and clinical sensitivity and specificity in pregnancy testing. 1989;161:835-6 (Letter reply)
- Ershow AG (see Brinton et al). 1989;161:121-7
- Ervin MG (see Castro et al). 1989;161:1337-43
- (see Ross et al). 1989;161:1559-65
- Eschenbach DA (see Paavonen et al). 1989;161:128-35
- Esteban-Altirriba J (see Quilez et al). 1989;161:1426-7 (Letter)
- Evans JH (see Resnick et al). 1989;161:184-7
- Evans MI (see Economides et al). 1989;161:1004-8

- (see Economides et al). 1989;161:1219-27
Evans WS (see Veldhuis et al). 1989;161:1149-58

F

- Fabbri R (see Porcu et al). 1989;161:174-7
Facchinetti F, Lanzani A, Genazzani AR. Fetal intermediate lobe is stimulated by parturition. 1989;161:1267-70
Fadel HE. Uselessness of the phosphatidylglycerol assay for prediction of fetal maturity. 1989;161:1418 (Letter reply)
Fangman JJ (see Sciarra et al). 1989;161:1114-8
Farookhi R (see Brawer et al). 1989;161:474-80
Farrán I (see Andreu et al). 1989;161:1424-5 (Letter)
Farrell EE, Silver RK, Kimberlin LV, Wolf ES, Dusik JM. Impact of antenatal dexamethasone administration on respiratory distress syndrome in surfactant-treated infants. 1989;161:628-33
Fedele L, Bianchi S, Arcaini L, Vercellini P, Candiani GB. Buserelin versus danazol in the treatment of endometriosis-associated infertility. 1989;161:871-6
Feichtinger W, Breitenecker G, Fröhlich H. Prolongation of pregnancy and survival of twin B after loss of twin A at 21 weeks' gestation. 1989;161:891-3
Feinberg RF (see Lockwood et al). 1989;161:369-73
Feinkind L, Abulafia O, Delke I, Feldman J, Minkoff H. Screening with Doppler velocimetry in labor. 1989;161:765-70
Feldman J (see Feinkind et al). 1989;161:765-70
Fenolio KR (see Copeland et al). 1989;161:1289-94
Ferguson JE II, Dyson DC, Holbrook RH Jr, Schutz T, Stevenson DK. Cardiovascular and metabolic effects associated with nifedipine and ritodrine tocolysis. 1989;161:788-95
—, Schutz T, Pershe R, Stevenson DK, Blaschke T. Nifedipine pharmacokinetics during preterm labor tocolysis. 1989;161:1485-90
— (see Hogge et al). 1989;161:520-4
Ferrara TB, Hoekstra RE, Gaziano E, Knox GE, Couser RJ, Fangman JJ. Changing outcome of extremely premature infants (≤ 26 weeks' gestation and ≤ 750 gm): survival and follow-up at a tertiary center. 1989;161:1114-8
Fiarman GS (see Berkowitz et al). 1989;161:146-9
Fields C (see Martin et al). 1989;161:1127-32
Figueroa JP, Honnabier MBOM, Binienda Z, Wimsatt J, Nathanielsz PW. Effect of a 48-hour Δ^4 -androstenedione infusion on the pregnant rhesus monkey in the last third of gestation: changes in maternal plasma estradiol concentrations and myometrial contractility. 1989;161:481-6
— (see Hsu et al). 1989;161:467-73
Firth KF, Pipkin FB. Human α - and β -calcitonin gene-related peptides are vasodilators in human chorionic plate vasculature. 1989;161:1318-9
Fisher DA (see Castro et al). 1989;161:1337-43
Fisk NM (see Hubinont et al). 1989;161:306-7
— (see Nicolini et al). 1989;161:924-7
— (see Nicolini et al). 1989;161:1098-101 (Clin. opinion)
Fitzgerald S (see Eddie et al). 1989;161:970-3
FitzSimmons J, Droste S, Shepard TH, Pascoe-Mason J, Chinn A, Mack LA. Long bone growth in fetuses with Down syndrome. 1989;161:1174-7
Flamigni C (see Porcu et al). 1989;161:174-7
Floyd RL (see Berg et al). 1989;161:86-91
Forbes HW (see Valenzuela et al). 1989;161:1566-70
Foreman J (see Gagnon et al). 1989;161:1470-6
— (see Gagnon et al). 1989;161:1479-85
Fortunato SJ (see Minhas et al). 1989;161:1714-7
Foster JM (see Goldenberg et al). 1989;161:271-7 (Clin. opinion)
Fotheringham N (see Sacks et al). 1989;161:638-41
— (see Sacks et al). 1989;161:642-5
Fowler LJ (see Thorp et al). 1989;161:1245-6
Fraser C (see Walker et al). 1989;161:676-9
Freedman S (see Schoenfeld et al). 1989;161:1204-5
Frenkel Y (see Lipitz et al). 1989;161:1279-84
Fribourg S. Perinatal death as a result of social factors. 1989;161:1748 (Letter)
Friedberg V (see Bürger et al). 1989;161:162-7
Fries JK (see Hill et al). 1989;161:193-9
Fröhlich H (see Feichtinger et al). 1989;161:891-3
Fuchs A-R (see Ivanisevic et al). 1989;161:1637-43
Fuith LC. Other routes charted after description of adventurous journey of CA 125. 1989;161:1747 (Letter)
— (see Mitterschiffthaler and Fuith). 1989;161:501 (Letter)
Fujii S (see Nanbu et al). 1989;161:462-7
Fujimoto J-I (see Nozawa et al). 1989;161:1079-86
Furlough RR (see Resnick et al). 1989;161:184-7
Furness ME. Vaginosonographic examination—Routine procedure? 1989;161:499 (Letter)

G

- Gable DS (see Gallup et al). 1989;161:533-9
Gabrielli S (see Winn et al). 1989;161:1540-2
Gagnon R, Foreman J, Hunse C, Patrick J. Effects of low-frequency vibration on human term fetuses. 1989;161:1479-85
—, Hunse C, Bocking AD. Fetal heart rate patterns in the small-for-gestational-age human fetus. 1989;161:779-84
—, —, Foreman J. Human fetal behavioral states after vibratory stimulation. 1989;161:1470-6
— (see Bocking et al). 1989;161:722-7
Gahl WA (see Economides et al). 1989;161:1004-8
— (see Economides et al). 1989;161:1219-27
Gallagher JC (see Genant et al). 1989;161:1842-6 (Symposium)
— (see Mazess et al). 1989;161:843-8 (Clin. opinion)
Galland L. Allergic vaginitis. 1989;161:1753 (Letter reply)
Gallup DG, Gable DS, Talledo OE, Otken LB Jr. A clinical-pathologic study of mixed müllerian tumors of the uterus over a 16-year period—The Medical College of Georgia experience. 1989;161:533-9
— (see Jijon et al). 1989;161:1658-62
Garfield RE, Beier S. Increased myometrial responsiveness to oxytocin during term and preterm labor. 1989;161:454-61
Garite T (see Gocke et al). 1989;161:111-4
Garrahy G (see Sacks and Garratty). 1989;161:928-9
Garsia S (see Sideri et al). 1989;161:38-42
Gast MJ, Sims HF, Murdock GL, Gast PM, Strauss AW. Isolation and sequencing of a complementary deoxyribonucleic acid clone encoding human placental 17 β -estradiol dehydrogenase: identification of the putative cofactor binding site. 1989;161:1726-31
Gast PM (see Gast et al). 1989;161:1726-31
Gáti I (see Török and Gáti). 1989;161:1753-4 (Letter)
Gaziano E (see Ferrara et al). 1989;161:1114-8
Genant HK, Baylink DJ, Gallagher JC. Estrogens in the prevention of osteoporosis in postmenopausal women. 1989;161:1842-6 (Symposium)
Genazzani AR (see Facchinetti et al). 1989;161:1267-70
Genover E (see Andreu et al). 1989;161:1424-5 (Letter)
Gentzsch EE (see Matteri et al). 1989;161:1704-9
Gerbie AB (see Brewer et al). 1989;161:840 (Letter reply)
Ghodaonkar RB (see Katz et al). 1989;161:1361-6

- Ghods A (*see* Weiner et al). 1989;161:1599-605
— (*see* Weiner et al). 1989;161:1605-10
- Gibbs CP. Pulmonary artery catheterization in severe eclampsia. 1989;161:1089 (Letter)
- Gibbs RS (*see* Silver et al). 1989;161:808-12
- Gibson RN (*see* Holbrook et al). 1989;161:718-21
- Gill TJ III (*see* Ho et al). 1989;161:942-8
- Gilstrap LC III, Leveno KJ, Burris J, Williams ML, Little BB. Diagnosis of birth asphyxia on the basis of fetal pH, Apgar score, and newborn cerebral dysfunction. 1989;161:825-30
— (*see* Little et al). 1989;161:732-4
- Gimovsky ML, Nishiyama M. Relapsing polychondritis in pregnancy: a case report and review. 1989;161:332-4
- Gingras JL (*see* Hume et al). 1989;161:685-90
- Girton L (*see* Mortola et al). 1989;161:1682-7
- Girz BA (*see* Chervenak et al). 1989;161:753-6
— (*see* Divon et al). 1989;161:757-60
— (*see* Divon et al). 1989;161:1523-7
- Gleicher N. Breast disease programs in obstetrics and gynecology: a plea for training in mammography. 1989;161:267-70 (Clin. opinion)
- Glezerman M, Piura B, Insler V. Cervical cancer in Jewish women. 1989;161:1186-90
- Glynn M (*see* Hannah et al). 1989;161:322-3
- Gocke SE, Nageotte MP, Garite T, Towers CV, Dorchester W. Management of the nonvertex second twin: primary cesarean section, external version, or primary breech extraction. 1989;161:111-4
- Goedert JJ (*see* Biggar et al). 1989;161:1239-44
- Golan A (*see* Pansky et al). 1989;161:393-6
- Golbus MS (*see* Pinckert et al). 1989;161:693-8
- Goldberg GL, Vermund SH, Schiffman MH, Ritter DB, Spitzer C, Burk RD. Comparison of Cytobrush and cervicovaginal lavage sampling methods for the detection of genital human papillomavirus. 1989;161:1669-72
- Goldenberg RL, Cutter GR, Hoffman HJ, Foster JM, Nelson KG, Hauth JC. Intrauterine growth retardation: standards for diagnosis. 1989;161:271-7 (Clin. opinion)
- Goldfien A (*see* Lee et al). 1989;161:1044-9
- Goldsmith LT, Skurnick JH, Wojcik AS, Linden M, Kuhar MJ, Weiss G. The antagonistic effect of oxytocin and relaxin on rat uterine segment contractility. 1989;161:1644-9
- Goldstein I. Race and gender factors omitted from results. 1989;161:502-3 (Letter reply)
—, Reece EA, O'Connor TZ, Hobbins JC. Estimating gestational age in the term pregnancy with a model based on multiple indices of fetal maturity. 1989;161:1235-8
- Goldstein M (*see* Ogburn et al). 1989;161:728-32
— (*see* Stonestreet et al). 1989;161:894-9
- Gonen R (*see* Hannah et al). 1989;161:322-3
- Gooden MD. Defining "primiparas." 1989;161:1417 (Letter)
- Goodlin RC. Maternal hematocrit and premature labor. 1989;161:1750 (Letter)
—, Oxytocin may explain neonatal seizures. 1989;161:259 (Letter)
—, Role of ferritin supported in diagnosis of anemias of pregnancy. 1989;161:258 (Letter)
- Goshen R (*see* Palti et al). 1989;161:1147-8
- Gosset M (*see* Poissonnier et al). 1989;161:709-13
- Gotto AM Jr (*see* Patsch et al). 1989;161:1396-401 (Symposium)
- Grannum PA (*see* Copel et al). 1989;161:341-4
— (*see* Copel et al). 1989;161:361-5
- Grant S (*see* Weiner et al). 1989;161:706-8
— (*see* Weiner et al). 1989;161:714-7
- Greelish JP (*see* Hatjis et al). 1989;161:1015-9
- Green JJ (*see* Copel et al). 1989;161:341-4
— (*see* Copel et al). 1989;161:361-5
- Greene CL (*see* Luder and Greene). 1989;161:1102-5 (Clin. opinion)
- Greene MF, Hare JW, Krache M, Phillippe M, Barss VA, Saltzman DH, Nadel A, Younger MD, Heffner L, Scherl JE. Prematurity among insulin-requiring diabetic gravid women. 1989;161:106-11
- Greenspoon JS, Settlege RH. Isolation of human immunodeficiency virus from the placenta or from maternal blood contaminating the placenta? 1989;161:501-2 (Letter)
— (*see* Madinger et al). 1989;161:657-62
— (*see* Masaki et al). 1989;161:680-4
— (*see* Sacks et al). 1989;161:638-41
— (*see* Sacks et al). 1989;161:642-5
- Greiss FC Jr. The challenge of change revisited. 1989;161:505-9 (Pres. address)
— (*see* May and Greiss). 1989;161:555-61
- Griffin G (*see* Weaver et al). 1989;161:1331-7
- Grimes DA. Evaluating triphasic oral contraceptives: the rationale for a randomized trial. 1989;161:1390-2 (Symposium)
- Grizzle WE (*see* Alvarez et al). 1989;161:1653-7
- Groff DE (*see* Smith et al). 1989;161:911-5
- Grogan DM (*see* Hatjis and Grogan). 1989;161:493-6
— (*see* Hatjis and Grogan). 1989;161:1633-6
— (*see* Hatjis et al). 1989;161:1628-32
- Guidetti DA, Divon My, Langer O. Postdate fetal surveillance: Is 41 weeks too early? 1989;161:91-3
— (*see* Divon et al). 1989;161:757-60
- Gunby J (*see* Daya et al). 1989;161:1284-9
- Gurr DE (*see* Smith et al). 1989;161:879-80
- Guzick D (*see* Hill et al). 1989;161:193-9
- Guzick DS (*see* Parker et al). 1989;161:795-802

H

- Haas J (*see* Petru et al). 1989;161:937-41
- Hadi HA, Albazzaz SJ. Cardiac isoenzymes and electrocardiographic changes during ritodrine tocolysis. 1989;161:318-21
- Hahlin M (*see* Lindblom et al). 1989;161:397-400
- Hahn RG. Compliance considerations with estrogen replacement: withdrawal bleeding and other factors. 1989;161:1854-8 (Symposium)
- Hallman M, Arjomaa P, Hoppu K, Teramo K, Akino T. Surfactant proteins in the diagnosis of fetal lung maturity. II. The 35 kd protein and phospholipids in complicated pregnancy. 1989;161:965-9
—, Bry K, Pitkanen O. Ceramide lactoside in amniotic fluid: high concentration in chorioamnionitis and in preterm labor. 1989;161:313-8
- Halme J. Release of tumor necrosis factor- α by human peritoneal macrophages in vivo and in vitro. 1989;161:1718-25
- Hamer C (*see* Newman et al). 1989;161:547-5
- Hamilton CJCM, Hoogland HJ. Longitudinal ultrasonographic study of the ovarian suppressive activity of a low-dose triphasic oral contraceptive during correct and incorrect pill intake. 1989;161:1159-62
- Hammond CB. Estrogen replacement therapy: what the future holds. 1989;161:1864-8 (Symposium)
- Hammond MG. Dosage and duration differences lead to diverse conclusions. 1989;161:1745-6 (Letter reply)
- Haney AF (*see* Dodson et al). 1989;161:1752 (Letter reply)
- Hanng RV Jr, Curet LB, Poole WK, Boehnlein LM, Kuzma

- DL, Meier SM. Effects of fetal sex and dexamethasone on preterm maternal serum concentrations of human chorionic gonadotropin, progesterone, estrone, estradiol, and estriol. 1989;161:1549-53
- Hankins GDV (see Clark et al). 1989;161:1439-42
- Hanna N (see Copel et al). 1989;161:361-5
- Hannah ME, Gonen R, Mocarski EJM, Cameron R, Blendis L, Glynn M. Elevated liver enzymes and thrombocytopenia in the third trimester of pregnancy: an unusual case report and a review of the literature. 1989;161:322-3
- Hansford H (see Bocking et al). 1989;161:722-7
- Harbert GM Jr (see Hogge et al). 1989;161:520-4
- Hare JW (see Greene et al). 1989;161:106-11
- Hargrove JT, Maxson WS, Wentz AC. Absorption of oral progesterone is influenced by vehicle and particle size. 1989;161:948-51
- Hartge P, Schiffman MH, Hoover R, McGowan L, Leshner L, Norris HJ. A case-control study of epithelial ovarian cancer. 1989;161:10-6 (Clin. opinion)
- Hasaart THM (see van Huiseling et al). 1989;161:1061-4
- Hashimoto K (see Hatjis et al). 1989;161:1015-9
- Hasty L (see Rando et al). 1989;161:50-5
- (see Sedlacek et al). 1989;161:55-9
- Hata J-I (see Nozawa et al). 1989;161:1079-86
- Hatjis CG. Number clarification requested. 1989;161:1746 (Letter)
- , Greelish JP, Kofinas AD, Stroud A, Hashimoto K, Rose JC. Atrial natriuretic factor maternal and fetal concentrations in severe preeclampsia. 1989;161:1015-9
- , Grogan DM. Atrial natriuretic peptide receptors in guinea pig placentas. 1989;161:493-6
- , —, —. Pregnancy-induced changes in the interaction of guinea pig myometrial β -adrenergic receptors with *l*-isoproterenol. 1989;161:1633-6
- , —, Koritnik DR. Treatment of oophorectomized guinea pigs with intrauterine 17 β -estradiol pellets may modulate myometrial β -adrenergic receptor binding properties. 1989;161:1628-32
- , Koritnik DR. Up-regulation of guinea pig myometrial adenylate cyclase activity by intrauterine estradiol and progesterone pellets. 1989;161:1073-8
- (see Kofinas et al). 1989;161:1536-9
- Hausman DB (see Bue et al). 1989;161:234-40
- Hauth JC (see Goldenberg et al). 1989;161:271-7 (Clin. opinion)
- (see Parker et al). 1989;161:795-802
- Hazzard WR. Estrogen replacement and cardiovascular disease: serum lipids and blood pressure effects. 1989;161:1847-53 (Symposium)
- Hecht BR, Khan-Dawood FS, Dawood MY. Peri-implantation phase endometrial estrogen and progesterone receptors: effect of ovulation induction with clomiphene citrate. 1989;161:1688-93
- Hedrick LA (see Baill et al). 1989;161:334-6
- Heffner L (see Greene et al). 1989;161:106-11
- Heiderich KJ (see Cohen et al). 1989;161:1013-4
- Heiskov J (see Weiner et al). 1989;161:714-7
- (see Weiner et al). 1989;161:1493-501
- Hellgren MSE (see Dahlman et al). 1989;161:420-5
- Helmer H (see Ivanisevic et al). 1989;161:1637-43
- Helmerhorst TJM, Wijnen HJA, Tjoe GSTD, Dijkhuizen HH, Calame JJ, Kenemans P, Stolk HG. Colposcopic findings and intraepithelial neoplasia in diethylstilbestrol-exposed offspring. 1989;161:1191-4
- Henderson BE. The cancer question: an overview of recent epidemiologic and retrospective data. 1989;161:1859-64 (Symposium)
- Henderson C (see Moore et al). 1989;161:849-55 (Clin. opinion)
- Hendricks SK, Sorensen TK, Wang KY, Bushnell JM, Seguin EM, Zingheim RW. Doppler umbilical artery waveform indices—normal values from fourteen to forty-two weeks. 1989;161:761-5
- Hertz RH (see Moore et al). 1989;161:849-55 (Clin. opinion)
- Heyl PS (see Landy et al). 1989;161:308
- Hill JA, Anderson DJ. Lymphocyte activity in the presence of peritoneal fluid from fertile women and infertile women with and without endometriosis. 1989;161:861-4
- Hill LM, Guzick D, Thomas ML, Fries JK. Fetal radius length: a critical evaluation of race as a factor in gestational age assessment. 1989;161:193-9
- Hill RM (see Stefos et al). 1989;161:179-83
- Hill T (see Clark et al). 1989;161:1439-42
- Hill WC, Carlson JR, Bolton V. Isolation of human immunodeficiency virus from the placenta or from maternal blood contaminating the placenta? 1989;161:502 (Letter reply)
- Hillard PJA. The patient's reaction to side effects of oral contraceptives. 1989;161:1412-5 (Symposium)
- Hillier S (see Paavonen et al). 1989;161:128-35
- Hirsch J (see Chervenak et al). 1989;161:753-6
- Ho H-N, Gill TJ III, Klionsky B, Ouyang P-C, Hsieh C-Y, Seski J, Kunschner A. Differences between white and Chinese populations in human leukocyte antigen sharing and gestational trophoblastic tumors. 1989;161:942-8
- Hobart ED (see Silver et al). 1989;161:784-7
- Hobbins JC (see Copel et al). 1989;161:341-4
- (see Copel et al). 1989;161:361-5
- (see Goldstein et al). 1989;161:1235-8
- (see Lockwood et al). 1989;161:369-73
- (see Romero et al). 1989;161:336-41
- (see Romero et al). 1989;161:817-24
- (see Winn et al). 1989;161:1540-2
- Hobel CJ (see Castro et al). 1989;161:623-7
- (see Casto et al). 1989;161:1620-3
- Hochberg H (see Small et al). 1989;161:323-9
- Hod M (see Schoenfeld et al). 1989;161:1204-5
- Hoekstra RE (see Ferrara et al). 1989;161:1114-8
- Hoffman HJ (see Goldenberg et al). 1989;161:271-7 (Clin. opinion)
- Hofmann G (see Archer et al). 1989;161:581-92
- Hogge WA, Thiagarajah S, Ferguson JE II, Schnatterly PT, Harbert GM Jr. The role of ultrasonography and amniocentesis in the evaluation of pregnancies at risk for neural tube defects. 1989;161:520-4
- Hohenfellner R (see Bürger et al). 1989;161:162-7
- Hohimer AR, Bissonnette JM. Effects of cephalic hypotension, hypertension, and barbiturates on fetal cerebral blood flow and metabolism. 1989;161:1344-51
- (see Chao et al). 1989;161:221-8
- Holbrook RH Jr, Voss EM, Gibson RN. Ovine fetal cardiorespiratory response to nicardipine. 1989;161:718-21
- (see Ferguson et al). 1989;161:788-95
- Hollister MC (see Reid et al). 1989;161:229-33
- Holmes KK (see Paavonen et al). 1989;161:128-35
- Honnebier MBOM (see Figueroa et al). 1989;161:481-6
- (see Hsu et al). 1989;161:467-73
- Hoogland HJ (see Hamilton and Hoogland). 1989;161:1159-62
- Hoover R (see Hartge et al). 1989;161:10-6 (Clin. opinion)

- Hoppu K (see Hallman et al). 1989;161:965-9
- Horimoto N, Koyanagi T, Nagata S, Nakahara H, Nakano H. Concurrence of mouthing movement and rapid eye movement/non-rapid eye movement phases with advance in gestation of the human fetus. 1989;161:344-51
- Hoskins IA, Katz J, Ordorica SA, Young BK. Esterase activity in second- and third-trimester amniotic fluid: an indicator of chorioamnionitis. 1989;161:1543-5
- Howerton T (see Keith et al). 1989;161:1305-13
- Hsieh C-Y (see Ho et al). 1989;161:942-8
- Hsu HW, Figueroa JP, Honneberg MBOM, Wentworth R, Nathanielsz PW. Power spectrum analysis of myometrial electromyogram and intrauterine pressure changes in the pregnant rhesus monkey in late gestation. 1989;161:467-73
- Hu MG (see Macri et al). 1989;161:254-5 (Letter reply)
- Hubel CA, Roberts JM, Taylor RN, Musci TJ, Rogers GM, McLaughlin MK. Lipid peroxidation in pregnancy: new perspectives on preeclampsia. 1989;161:1025-34 (Curr. dev.)
- (see Roberts et al). 1989;161:1200-4
- Hubinont C, Fisk NM, Nicolini U, Rodeck CH. Fetal hyperinsulinism in anencephaly. 1989;161:306-7
- (see Nicolini et al). 1989;161:924-7
- Huchet J (see Poissonnier et al). 1989;161:709-13
- Hudson J (see Weiner et al). 1989;161:706-8
- Hughes CL (see Dodson et al). 1989;161:1752 (Letter reply)
- Huhta JC (see Mari et al). 1989;161:1528-31
- Hulka JF (see Wells and Hulka). 1989;161:1124-6
- Hume RF Jr, O'Donnell KJ, Stanger CL, Killam AP, Gingras JL. In utero cocaine exposure: observations of fetal behavioral state may predict neonatal outcome. 1989;161:685-90
- Humme J (see Ross et al). 1989;161:1559-65
- Humphreys-Beher MG, Blackwell RE. Identification of a deoxyribonucleic acid allelic variant for β -4 galactosyltransferase expression associated with male sperm binding/penetration infertility (1989;160:1160-5). 1989;161:816 (Correction)
- Hunse C (see Gagnon et al). 1989;161:779-84
- (see Gagnon et al). 1989;161:1470-6
- (see Gagnon et al). 1989;161:1479-85
- Hunter DJS. Screening for gestational diabetes. 1989;161:1423-4 (Letter)
- Hunter S (see Robson et al). 1989;161:1273-8
- Hurt WG, Bodurtha JN, McCall JB, Ali MM. Seminoma in pubertal patient with androgen insensitivity syndrome. 1989;161:530-1
- Husby H (see Jensen et al). 1989;161:951-2
- Husslein P (see Egarter and Husslein). 1989;161:904
- Hutson JM (see Druzin et al). 1989;161:1476-8

I

- Iizuka R (see Nozawa et al). 1989;161:1079-86
- Illingworth DR (see Burry et al) (1989;160:1454-61). 1989;161:1755 (Correction)
- Imanaka M, Ogita S, Sugawa T. Saline solution amniocentesis for oligohydramnios after premature rupture of the membranes. 1989;161:102-6
- Inatomi K (see Kyodo et al). 1989;161:94-6
- Insler V (see Glezerman et al). 1989;161:1186-90
- Irahara M (see Mori et al). 1989;161:207-11
- Ivanisevic M, Behrens O, Helmer H, Fuchs A-R. Vasopressin receptors in human pregnant myometrium and decidua: interactions with oxytocin and vasopressin agonists and antagonists. 1989;161:1637-43
- Iwamori M (see Nozawa et al). 1989;161:1079-86

J

- Jaakkola U-M (see Pulkkinen and Jaakkola). 1989;161:934-7
- Jacobson JD, Cousins L. A population-based study of maternal and perinatal outcome in patients with gestational diabetes. 1989;161:981-6
- Jaffe CC (see Copel et al). 1989;161:361-5
- Jaffe R (see Abramowicz et al). 1989;161:1137-40
- Jauniaux E, Campbell S, Vyas S. The use of color Doppler imaging for prenatal diagnosis of umbilical cord anomalies: report of three cases. 1989;161:1195-7
- Jensen LK, Svanegaard J, Husby H. Atrial natriuretic peptide during the menstrual cycle. 1989;161:951-2
- Jensen LP (see Burkett et al). 1989;161:540-7
- Jick H (see Milunsky et al). 1989;161:291-7
- Jick SS (see Milunsky et al). 1989;161:291-7
- Jijon AJ, Gallup DG, Behzadian MA, Metheny WP. Assessment of epidermal growth factor in the healing process of clean full-thickness skin wounds. 1989;161:1658-62
- Johnson A (see Dennis et al). 1989;161:213-20
- Johnson MD, Tho SPT, Behzadian A, McDonough PG. Molecular scanning of Yq11 (interval 6) in men with Sertoli-cell-only syndrome. 1989;161:1732-7
- Johnson MJ (see Russ et al). 1989;161:401-6
- Johnson N, Johnson VA. Continuous fetal monitoring with a pulse oximeter: a case of cord compression. 1989;161:1295-6
- , Lilford RJ, Sharpe D. A new surgical technique to treat refractory labial fusion in the elderly. 1989;161:289-90
- Johnson P (see Dennis et al). 1989;161:213-20
- Johnson TRB (see Thomas et al). 1989;161:141-5
- Johnson VA (see Johnson and Johnson). 1989;161:1295-6
- Johnston DA (see Thorp et al). 1989;161:670-5
- Johnston PD (see Eddie et al). 1989;161:970-3
- Jouppila P (see Räsänen et al). 1989;161:136-40
- Jovanovic-Peterson L, Durak EP, Peterson CM. Randomized trial of diet versus diet plus cardiovascular conditioning on glucose levels in gestational diabetes. 1989;161:415-9
- Jovkovsky V (see Veille et al). 1989;161:1610-4

K

- Kaali SG, Szigetvari IA, Bartfai GS. The frequency and management of uterine perforations during first-trimester abortions. 1989;161:406-8
- Kadar N. Specifics of specificity and sensitivity. 1989;161:1416 (Letter)
- Kalhan SC (see Rossi et al). 1989;161:1106-10
- Källén B (see Mazze and Källén). 1989;161:1178-85
- Kalo-Klein A, Witkin SS. *Candida albicans*: cellular immune system interactions during different stages of menstrual cycle. 1989;161:1132-6
- Kalstone C. Methicillin-resistant staphylococcal mastitis. 1989;161:120
- Kamada M (see Mori et al). 1989;161:207-11
- Kambam J, Perry SM, Smith BE. Effect of magnesium and preeclampsia on plasma cholinesterase activity. 1989;161:1754-5 (Letter reply)
- Kanaan C (see Veille and Kanaan). 1989;161:1502-7
- Kanwar AJ, Kaur S, Abraham A, Nanda A. Pemphigus in pregnancy. 1989;161:995-6
- Kassis AI (see Muto et al). 1989;161:1206-12
- Kasturi RV (see Macri et al). 1989;161:254-5 (Letter reply)
- Katta LR (see Bowes et al). 1989;161:1402-7 (Symposium)
- (see Droegemueller et al). 1989;161:1407-11 (Symposium)

- Katz E, Dharmarajan AM, Sueoka K, Ghodgaonkar RB, Dubin NH, Wallach EE. Effects of systemic administration of indomethacin on ovulation, luteinization, and steroidogenesis in the rabbit ovary. 1989;161:1361-6
- Katz J (see Hoskins et al). 1989;161:1543-5
- Katz VL, Seeds JW. Fetal and neonatal cardiovascular complications from β -sympathomimetic therapy for tocolysis. 1989;161:1-9 (Clin. opinion)
- (see Petersen et al). 1989;161:509-12
- (see Thorp et al). 1989;161:889-90
- (see Thorp et al). 1989;161:1245-6
- Kaufman RH, Bornstein J, Adam E, Adler-Storhiz K. Presence of human papillomavirus deoxyribonucleic acid. 1989;161:1420 (Letter reply)
- Kauppi A (see Telimaa et al). 1989;161:866-71
- Kaur S (see Kanwar et al). 1989;161:995-6
- Keith JC Jr, Miller K, Eggleston MK, Kuttruff J, Howerton T, Konczal C, McDaniels C. Effects of thromboxane synthetase inhibition on maternal-fetal homeostasis in gravid ewes with ovine pregnancy-induced hypertension. 1989;161:1305-13
- Kelly JC, Petrocik E, Wassman ER. Amniotic fluid acetylcholinesterase ratios in prenatal diagnosis of fetal abnormalities. 1989;161:703-5
- (see Petrocik et al). 1989;161:1168-73
- Kemmann E (see Corsan et al). 1989;161:1751-2 (Letter)
- Kenemans P (see Helmerhorst et al). 1989;161:1191-4
- Kessel RWI (see Cohen et al). 1989;161:1013-4
- Khan-Dawood FS (see Hecht et al). 1989;161:1688-93
- Khodiguan N (see Artal et al). 1989;161:1464-9
- Kholkute SD (see Puri et al). 1989;161:248-53
- Khoury AN (see Landy et al). 1989;161:308
- Kieckens L (see Ballegeer et al). 1989;161:432-6
- Killam AP (see Hume et al). 1989;161:685-90
- Kimberlin LV (see Farrell et al). 1989;161:628-33
- Kingsland CR, Collins JV, Rizk B, Mason BA. Ovarian hyperstimulation presenting as acute hydrothorax after in vitro fertilization. 1989;161:381-2
- Kirkinen P (see Räsänen et al). 1989;161:136-40
- Kirshenbaum N (see Bracero et al). 1989;161:388-93
- Kirshon B (see Mari et al). 1989;161:1514-8
- (see Mari et al). 1989;161:1528-31
- Kirz DS (see Pircon et al). 1989;161:775-9
- Kitayama S (see Nakano et al). 1989;161:905-10
- Kitchin JD III (see Nunley et al). 1989;161:573-6
- Kleinman CS (see Copel et al). 1989;161:361-5
- Klionsky B (see Ho et al). 1989;161:942-8
- Knapp RC (see Muto et al). 1989;161:1206-12
- Knapstein PG (see Bürger et al). 1989;161:162-7
- Knox GE (see Ferrara et al). 1989;161:1114-8
- Knuppel RA (see Morales et al). 1989;161:568-72
- (see Sims et al). 1989;161:532-3
- Kofinas AD, Penry M, Swain M, Hatjis CG. Effect of placental laterality on uterine artery resistance and development of preeclampsia and intrauterine growth retardation. 1989;161:1536-9
- (see Hatjis et al). 1989;161:1015-9
- Kohut J (see Daya et al). 1989;161:1284-9
- Kolins MD. Specifics of specificity and sensitivity. 1989;161:1416-7 (Letter reply)
- Kolp LA (see Nunley et al). 1989;161:573-6
- Konczal C (see Keith et al). 1989;161:1305-13
- Konishi I (see Nanbu et al). 1989;161:462-7
- Koonings PP (see Bergman et al). 1989;161:97-101
- Koos BJ (see Salvador and Koos) (1989;160:1043-7). 1989;161:669 (Correction)
- Koritnik DR (see Hatjis and Koritnik). 1989;161:1073-8
- (see Hatjis et al). 1989;161:1628-32
- Koutsilieris M. Human uterus-derived growth substances for rat bone cells and fibroblasts. 1989;161:1313-7
- Koyanagi T (see Horimoto et al). 1989;161:344-51
- Krache M (see Greene et al). 1989;161:106-11
- Krantz DA (see Macri et al). 1989;161:254-5 (Letter reply)
- Kreitzer LA (see Block et al). 1989;161:1576-9
- Kuczyńska-Sicińska J (see Wójcicka-Jagodzińska et al). 1989;161:959-64
- Kuhar MJ (see Goldsmith et al). 1989;161:1644-9
- Kuhn M (see Lorenz and Kuhn). 1989;161:263-6 (Clin. opinion)
- Kuhnert BR (see Lazebnik et al). 1989;161:437-40
- Kuhnert PM (see Lazebnik et al). 1989;161:437-40
- Kumar R (see Minhas et al). 1989;161:1714-7
- Kunschner A (see Ho et al). 1989;161:942-8
- Kuo C-C (see Paavonen et al). 1989;161:128-35
- Kuo T-C (see Miyazaki et al). 1989;161:1709-14
- Kurczynski TW (see DeRosa et al). 1989;161:690-2
- Kurtzman JT (see Thorp et al). 1989;161:1245-6
- Kuttruff J (see Keith et al). 1989;161:1305-13
- Kuzma DL (see Haning et al). 1989;161:1549-53
- Kyodo Y, Inatomi K, Abe T. Sarcoma associated with pregnancy. 1989;161:94-6

L

- Laferrere B (see Wurtman et al). 1989;161:1228-34
- LaGuardia KD, Druzin ML, Eades C. Maternity shelter care for adolescents: its effect on incidence of low birth weight. 1989;161:303-6
- Lahousen M (see Petru et al). 1989;161:937-41
- Lai A (see Burkett et al). 1989;161:540-7
- Landesman S (see Biggar et al). 1989;161:1239-44
- Landy HJ, Khoury AN, Heyl PS. Antenatal ultrasonographic diagnosis of fetal seizure activity. 1989;161:308
- Lange IR (see Ryan et al). 1989;161:1297-304 (Curr. invest.)
- Langer O, Anyaegbunam A, Brustman L, Divon M. Management of women with one abnormal oral glucose tolerance test value reduces adverse outcome in pregnancy. 1989;161:593-9
- , Levy J, Brustman L, Anyaegbunam A, Merkatz R, Divon M. Glycemic control in gestational diabetes mellitus—How tight is tight enough: small for gestational age versus large for gestational age? 1989;161:646-53
- (see Anyaegbunam et al). 1989;161:654-6
- (see Chervenak et al). 1989;161:753-6
- (see Divon et al). 1989;161:757-60
- (see Divon et al). 1989;161:1523-7
- (see Guidetti et al). 1989;161:91-3
- Langer R (see Pansky et al). 1989;161:393-6
- (see Ron-El et al). 1989;161:211-2
- Lanzani A (see Facchinetti et al). 1989;161:1267-70
- Larsen M (see Poissonnier et al). 1989;161:709-13
- La Vecchia C (see Sideri et al). 1989;161:38-42
- LaVoie M (see Berg et al). 1989;161:86-91
- Lazebnik N, Kuhnert BR, Kuhnert PM. Zinc, cadmium, and hypertension in parturient women. 1989;161:437-40
- Leake RD (see Castro et al). 1989;161:1337-43
- Lebo RV (see Pinckert et al). 1989;161:693-8
- Lechner W. Introduction of hexoprenaline into the treatment of preterm labor. 1989;161:1090-1 (Letter)
- Ledbetter DH (see Copeland et al). 1989;161:1289-94
- Ledger WJ. Criticism of publication of pharmaceutical-sup-

- ported research results draws response. 1989;161:839-40 (Letter)
- Leduc L (see Lee et al). 1989;161:1012-3
- Lee JK, Goldfien A, Lykins DL, Roberts JM. Pulmonary β -adrenergic receptors and response do not mature precociously in growth-retarded rabbit fetuses. 1989;161:1044-9
- Lee W, Leduc L, Cotton DB. Ultrasonographic guidance for central venous access during pregnancy. 1989;161:1012-3
- , Rokeby R. Techniques differ in use of Doppler ultrasonography. 1989;161:1749-50 (Letter reply)
- , —, Miller J, Cotton DB. Maternal hemodynamic effects of uterine contractions by M-mode and pulsed-Doppler echocardiography. 1989;161:974-7
- (see Clark et al). 1989;161:1439-42
- (see Mari et al). 1989;161:1514-8
- Leiberman JR, Mazor M, Cohen A. Detection of fetal blood. 1989;161:257 (Letter)
- Lendvay A (see Czeizel and Lendvay). 1989;161:497 (Letter)
- Lenke RR. Data sought to link adverse pregnancy outcome with maternal serum α -fetoprotein levels in black gravid women. 1989;161:254 (Letter)
- (see DeRosa et al). 1989;161:690-2
- Lepisto EM (see Muto et al). 1989;161:1206-12
- Leshner L (see Hartge et al). 1989;161:10-6 (Clin. opinion)
- Lesser KB (see Timor-Tritsch et al). 1989;161:157-61
- Lessey BA (see Soisson et al). 1989;161:1258-63
- Leung BS (see Borazjani et al). 1989;161:1253-7
- Leuschen P (see Rayburn et al). 1989;161:202-6
- Leveno KJ (see Gilstrap et al). 1989;161:825-30
- (see Lucas et al). 1989;161:426-31
- Levin JH (see Steinleitner et al). 1989;161:1677-81
- Levy J (see Langer et al). 1989;161:646-53
- Li J-Y (see Brinton et al). 1989;161:121-7
- Lieberman E, Ryan KJ, Monson RR, Schoenbaum SC. Maternal hematocrit and premature labor. 1989;161:1750-1 (Letter reply)
- Lieblisch R (see Divon et al). 1989;161:1523-7
- Lilford RJ (see Johnson et al). 1989;161:289-90
- (see Thornton and Lilford). 1989;161:256 (Letter)
- Limaye NS, Tchabo J-G. Asymptomatic thrombocytopenia associated with chorioangioma of placenta. 1989;161:76-7
- Lindblom B, Hahlén M, Sjöblom P. Serial human chorionic gonadotropin determinations by fluoroimmunoassay for differentiation between intrauterine and ectopic gestation. 1989;161:397-400
- Linden M (see Goldsmith et al). 1989;161:1644-9
- Lindheim S (see Rando et al). 1989;161:50-5
- (see Sedlacek et al). 1989;161:55-9
- Lipitz S, Reichman B, Paret G, Modan M, Shalev J, Serr DM, Mashiach S, Frenkel Y. The improving outcome of triplet pregnancies. 1989;161:1279-84
- Little BB, Bawdon RE, Christinas JT, Sobhi S, Gilstrap LC III. Pharmacokinetics of azidothymidine during late pregnancy in Long-Evans rats. 1989;161:732-4
- (see Gilstrap et al). 1989;161:825-30
- Llauradó A (see Quilez et al). 1989;161:1426-7 (Letter)
- Lobo RA (see Matteri et al). 1989;161:1704-9
- (see Sauer et al). 1989;161:380-1
- (see Steinleitner et al). 1989;161:1677-81
- Lockwood CJ, Romero R, Feinberg RF, Clyne LP, Coster B, Hobbins JC. The prevalence and biologic significance of lupus anticoagulant and anticardiolipin antibodies in a general obstetric population. 1989;161:369-73
- (see Peters et al). 1989;161:297-300
- Longo LD (see Valenzuela and Longo). 1989;161:1615-9
- Lorenz RP, Kuhn M. Multidisciplinary team counseling for fetal anomalies. 1989;161:263-6 (Clin. opinion)
- Lovell G (see McGregor et al). 1989;161:987-95
- Lowensohn RI (see Thurmond et al). 1989;161:83-5
- Lucas MJ, Leveno KJ, Williams ML, Raskin P, Whalley PJ. Early pregnancy glycosylated hemoglobin, severity of diabetes, and fetal malformations. 1989;161:426-31
- Luder AS, Greene CL. Maternal phenylketonuria and hyperphenylalaninemia: implications for medical practice in the United States. 1989;161:1102-5 (Clin. opinion)
- Ludomirsky A (see Sedlacek et al). 1989;161:55-9
- Lund P (see Smith et al). 1989;161:879-80
- Lykins DL (see Lee et al). 1989;161:1044-9
- Lynch L (see Wilkins and Lynch). 1989;161:1746 (Letter reply)

M

- Mabie WC, Ratts TE, Sibai BM. The central hemodynamics of severe preeclampsia. 1989;161:1443-8
- MacDonald PC (see Parker et al). 1989;161:795-802
- MacGillivray I (see Davey and MacGillivray). 1989;161:1422-3 (Letter reply)
- MacGregor SN, Socol ML, Piolet BW, Sholl JS, Silver RK. Prediction of hematocrit decline after intravascular fetal transfusion. 1989;161:1491-3
- (see Neerhof et al). 1989;161:633-8
- (see Silver et al). 1989;161:784-7
- (see Socol et al). 1989;161:255-6 (Letter reply)
- Mack LA (see FitzSimmons et al). 1989;161:1174-7
- MacKenzie IZ, Castle B, Bellinger J. Transfer of prostaglandins to the fetus after prostaglandin E_2 vaginal pessary administration. 1989;161:920-3
- MacLaughlin DS (see Milunsky et al). 1989;161:291-7
- Macri JN, Kasturi RV, Hu MG, Krantz DA, Dourous TJ, Sajda P, Cook EJ. Data sought to link adverse pregnancy outcome with maternal serum α -fetoprotein levels in black gravid women. 1989;161:254-5 (Letter reply)
- Madlinger NE, Greenspoon JS, Ellrodt AG. Pneumonia during pregnancy: Has modern technology improved maternal and fetal outcome? 1989;161:657-62
- Magenis RE (see Clark et al). 1989;161:301-2
- Manogue KR (see Romero et al). 1989;161:336-41
- Margulies M (see Voto and Margulies). 1989;161:255 (Letter)
- Mari G, Kirshon B, Moise KJ Jr, Lee W, Cotton DB. Doppler assessment of the fetal and uteroplacental circulation during nifedipine therapy for preterm labor. 1989;161:1514-8
- , Moise KJ Jr, Deter RL, Kirshon B, Huhta JC, Carpenter RJ Jr, Cotton DB. Doppler assessment of the pulsatility index of the middle cerebral artery during constriction of the fetal ductus arteriosus after indomethacin therapy. 1989;161:1528-31
- Markovits Y (see Ophir et al). 1989;161:25-8
- Markush L (see Villar et al). 1989;161:1019-24
- Marmelstein L (see Tuttle et al). 1989;161:1319-23
- Martin AD, Nodelovitz M, Fields C, O'kroy J. Predicting maximal oxygen uptake from treadmill testing in trained and untrained women. 1989;161:1127-32
- Martinez E (see Weiner et al). 1989;161:1599-605
- (see Weiner et al). 1989;161:1605-10
- Marx GF. Effect of magnesium and preeclampsia on plasma cholinesterase activity. 1989;161:1754 (Letter)
- Masaki DI, Greenspoon JS, Ouzounian JG. Measurement of cardiac output in pregnancy by thoracic electrical bioimpedance and thermidulation. 1989;161:680-4
- (see Artal et al). 1989;161:1464-9
- (see Rodriguez et al). 1989;161:666-9

- Mashiach S (see Lipitz et al). 1989;161:1279-84
- Mason BA (see Kingsland et al). 1989;161:381-2
- Mason T (see Elkins et al). 1989;161:150-4
- Matt DW (see Van Voorhis et al). 1989;161:1698-703
- Matteri RK, Stanczyk FZ, Gentzsch EE, Delgado C, Lobo RA. Androgen sulfate and glucuronide conjugates in non-hirsute and hirsute women with polycystic ovarian syndrome. 1989;161:1704-9
- Maxson WS (see Hargrove et al). 1989;161:948-51
- May WJ, Greiss FC Jr. Maternal mortality in North Carolina: a forty-year experience. 1989;161:555-61
- Mayhall CG (see Soper et al). 1989;161:562-8
- Mazess RB, Gallagher JC, Nodelovitz M, Schiff I, Utian W. Monitoring skeletal response to estrogen. 1989;161:843-8 (Clin opinion)
- Mazor M (see Leiberman et al). 1989;161:257 (Letter)
- (see Romero et al). 1989;161:817-24
- Mazze RI, Källén B. Reproductive outcome after anesthesia and operation during pregnancy: registry study of 5405 cases. 1989;161:1178-85
- McCall JB (see Hurt et al). 1989;161:530-1
- McCarthy BJ (see Berg et al). 1989;161:86-91
- McCarty KS Jr (see Berchuck et al). 1989;161:1247-52
- (see Soisson et al). 1989;161:1258-63
- McCullough LB (see Chervenak et al). 1989;161:857-60 (Clin. opinion)
- (see Cohen et al). 1989;161:1013-4
- McDaniels C (see Keith et al). 1989;161:1305-13
- McDonald JS (see Sellers et al). 1989;161:1001-3
- McDonough PG (see Johnson et al). 1989;161:1732-7
- (see Odom et al). 1989;161:1663-8
- McDougall JK (see Beckmann et al). 1989;161:1419-20 (Letter)
- McFarlin BL (see Noyszewski et al). 1989;161:282-8
- McGowan L (see Hartge et al). 1989;161:10-6 (Clin. opinion)
- McGregor JA, Soper DE, Lovell G, Todd JK. Maternal deaths associated with *Clostridium sordellii* infection. 1989;161:987-95
- McLaughlin MK (see Hubel et al). 1989;161:1025-34 (Curr. dev.)
- (see Roberts et al). 1989;161:1200-4
- McLeod AGW (see Burkett et al). 1989;161:540-7
- McSwain HF (see Mitchell et al). 1989;161:576-80
- Medearis AL (see Brar et al). 1989;161:1519-22
- Meier SM (see Haning et al). 1989;161:1549-53
- Mendenhall HW (see Spinnato et al). 1989;161:742-7
- Mendes H (see Biggar et al). 1989;161:1239-44
- Merkatz IR (see Anyaegbunam et al). 1989;161:654-6
- Merkatz R (see Langer et al). 1989;161:646-53
- Merlob P. Fetal death: diagnosis and management. 1989;161:254 (Letter)
- Merrell CL (see Weaver et al). 1989;161:1331-7
- Metheny WP (see Devoe et al). 1989;161:524-9
- (see Jijon et al). 1989;161:1658-62
- Meyer BA (see Peaceman et al). 1989;161:771-4
- Mibashan RS (see Nicolaides et al). 1989;161:1197-200
- Michel M, Underwood J, Clark DA, Mowbray JF, Beard RW. Histologic and immunologic study of uterine biopsy tissue of women with incipient abortion. 1989;161:409-14
- Mikhail MG (see Palan et al). 1989;161:881-5
- (see Palan et al). 1989;161:1649-52
- Milet T. Pregnancy in obstetrics residents. 1989;161:1422 (Letter)
- Miller DM (see Alvarez et al). 1989;161:1653-7
- Miller J (see Lee et al). 1989;161:974-7
- Miller K (see Keith et al). 1989;161:1305-13
- Miller MC (see Newman et al). 1989;161:547-5
- Miller WA (see Peters et al). 1989;161:297-300
- Milunsky A, Jick SS, Bruell CL, MacLaughlin DS, Tsung Y-K, Jick H, Rothman KJ, Willett W. Predictive values, relative risks, and overall benefits of high and low maternal serum α -fetoprotein screening in singleton pregnancies: new epidemiologic data. 1989;161:291-7
- Minhas BS, Kumar R, Ricker DD, Roubesh WE, Dodson MG, Fortunato SJ. Effects of platelet activating factor on mouse oocyte fertilization in vitro. 1989;161:1714-7
- Minkoff HL (see Biggar et al). 1989;161:1239-44
- (see Delke and Minkoff). 1989;161:1748 (Letter reply)
- (see Feinkind et al). 1989;161:765-70
- Minogue J (see Silver and Minogue). 1989;161:257 (Letter reply)
- Mishell DR Jr. Correcting misconceptions about oral contraceptives. 1989;161:1385-9 (Symposium)
- Estrogen replacement therapy: an overview. 1989;161:1825-7 (Symposium)
- Mitchell DE, McSwain HF, Peterson HB. Fertility after ectopic pregnancy. 1989;161:576-80
- Mitchell JM (see Roberts et al). 1989;161:42-6
- Mitchell MD (see Romero et al). 1989;161:336-41
- Mitterschiffthaler G, Fuih LC. Neurofibromatosis and pregnancy. 1989;161:501 (Letter)
- Miyazaki T, Kuo T-C, Dharmarajan AM, Atlas SJ, Wallach EE. In vivo administration of allopurinol affects ovulation and early embryonic development in rabbits. 1989;161:1709-14
- Mølsted-Pedersen L (see Damm and Mølsted-Pedersen). 1989;161:1163-7
- Moawad AH (see Pridjian and Moawad). 1989;161:261-2 (Clin. opinion)
- Mocarski EJM (see Hannah et al). 1989;161:322-3
- Mochizuki H (see Nozawa et al). 1989;161:1079-86
- Modan M (see Lipitz et al). 1989;161:1279-84
- Moise KJ Jr (see Mari et al). 1989;161:1514-8
- (see Mari et al). 1989;161:1528-31
- Mojica MA (see Berkowitz et al). 1989;161:146-9
- Monheit AG (see Abitbol et al). 1989;161:1324-31
- Monson RR (see Lieberman et al). 1989;161:1750-1 (Letter reply)
- Moore GW (see Baill et al). 1989;161:334-6
- Moore JJ, Andrews L, Henderson C, Zuspan KJ, Hertz RH. Neonatal resuscitation in community hospitals: a regional-based, team-oriented training program coordinated by the tertiary center. 1989;161:849-55 (Clin. opinion)
- Mor L (see Urbach et al). 1989;161:953-9
- Morales WJ, Collins EM, Angel JL, Knuppel RA. Short course of antibiotic therapy in treatment of postpartum endomyometritis. 1989;161:568-72
- Moreau H (see Balleger et al). 1989;161:432-6
- Moretti ML (see Skoll et al). 1989;161:813-6
- Morganelli PM (see Conrad et al). 1989;161:1065-72
- Mori K, Daitoh T, Irahara M, Kamada M, Aono T. Significance of D-mannose as a sperm receptor site on the zona pellucida in human fertilization. 1989;161:207-11
- Mori T (see Nanbu et al). 1989;161:462-7
- Morrow RJ, Adamson SL, Bull SB, Ritchie JWK. Effect of placental embolization on the umbilical arterial velocity waveform in fetal sheep. 1989;161:1055-60
- Mortola JF, Gorton L, Yen SSC. Depressive episodes in premenstrual syndrome. 1989;161:1682-7
- Motwani BT (see Bruckner and Motwani). 1989;161:1216-8
- Mowbray JF (see Michel et al). 1989;161:409-14

- Muechler EK (see Small and Muechler). 1989;161:17-24 (Clin. opinion)
Muijsers GJJM (see van Huisseling et al). 1989;161:1061-4
Muram D. Anal and perianal abnormalities in prepubertal victims of sexual abuse. 1989;161:278-81
Murdock GL (see Gast et al). 1989;161:1726-31
Musci TJ (see Hubel et al). 1989;161:1025-34 (Curr. dev.)
— (see Roberts et al). 1989;161:1200-4
Mutch L (see Dennis et al). 1989;161:213-20
Muto MG, Lepisto EM, Van den Abbeele AD, Knapp RC, Kassis AI. The influence of human antimurine antibody on CA 125 levels in patients with ovarian cancer undergoing radioimmunotherapy or immunoscintigraphy with murine monoclonal antibody OC 125. 1989;161:1206-12
Myerson D (see Beckmann et al). 1989;161:1419-20 (Letter)

N

- Nadel A (see Greene et al). 1989;161:106-11
Naftolin F (see Sanyal et al). 1989;161:446-53
Nagai Y (see Nozawa et al). 1989;161:1079-86
Nagamani M, Stuart CA, Dinh TV. Steroid biosynthesis in the Sertoli-Leydig cell tumor: effects of insulin and luteinizing hormone. 1989;161:1738-43
Nagata S (see Horimoto et al). 1989;161:344-51
Nagel RL (see Anyaegbunam et al). 1989;161:654-6
Nageotte MP. Results of uterine activity studies in agreement, but methods differ. 1989;161:1754 (Letter reply)
— (see Gocke et al). 1989;161:111-4
Nagy PS. Placenta percreta induced uterine rupture and resulted in intraabdominal abortion. 1989;161:1185-6
Nakahara H (see Horimoto et al). 1989;161:344-51
Nakahara Y (see Wassman et al). 1989;161:698-702
Nakano H (see Horimoto et al). 1989;161:344-51
Nakano R, Kitayama S, Yamoto M, Shima K, Ooshima A. Localization of gonadotropin binding sites in human ovarian neoplasms. 1989;161:905-10
Nanbu Y, Fujii S, Konishi I, Nonogaki H, Mori T. CA 125 in the epithelium closely related to the embryonic ectoderm: the periderm and the amnion. 1989;161:462-7
Nanda A (see Kanwar et al). 1989;161:462-7
Natan NB (see Schreyer et al). 1989;161:886-9
Nathanielsz PW (see Block et al). 1989;161:1576-9
— (see Figueroa et al). 1989;161:481-6
— (see Hsu et al). 1989;161:467-73
Naugler MA (see Ryan et al). 1989;161:1297-304 (Curr. invest.)
Neerhof MG, MacGregor SN, Retzky SS, Sullivan TP. Cocaine abuse during pregnancy: peripartum prevalence and perinatal outcome. 1989;161:633-8
Negri E (see Sideri et al). 1989;161:38-42
Neilson JP (see Danskin and Neilson). 1989;161:365-9
Nelson DM, Curran EM. High glucose level decreases proliferation of cultured human fetal cells from placenta. 1989;161:1553-8
—, Walsh SW. Aspirin differentially affects thromboxane and prostacyclin production by trophoblast and villous core compartments of human placental villi. 1989;161:1593-8
Nelson DW (see Thurmond et al). 1989;161:83-5
Nelson KG (see Goldenberg et al). 1989;161:271-7 (Clin. opinion)
Nemes JM (see DeRosa et al). 1989;161:690-2
Nestler JE, Clore JN, Blackard WG. The central role of obesity (hyperinsulinemia) in the pathogenesis of the polycystic ovary syndrome. 1989;161:1095-7 (Clin. opinion)
Newman RB, Hamer C, Miller MC. Outpatient triplet management: a contemporary review. 1989;161:547-5

- Nicolaides KH, Economides DL, Soothill PW. Blood gases, pH, and lactate in appropriate- and small-for-gestational-age fetuses. 1989;161:996-1001
—, Sadovsky G, Cetin E. Fetal heart rate patterns in red blood cell isoimmunized pregnancies. 1989;161:351-6
—, Thilaganathan B, Mibashan RS. Cordocentesis in the investigation of fetal erythropoiesis. 1989;161:1197-200
— (see Economides et al). 1989;161:1004-8
— (see Economides et al). 1989;161:1219-27
— (see Panos et al). 1989;161:357-61
— (see Rabinowitz et al). 1989;161:1264-6
— (see Vyas et al). 1989;161:168-72
Nicolini U, Fisk NM, Rodeck CH, Talbert DG, Wigglesworth JS. Low amniotic pressure in oligohydramnios—Is this the cause of pulmonary hypoplasia? 1989;161:1098-101 (Clin. opinion)
—, Hubinont C, Santolaya J, Fisk NM, Coe AM, Rodeck CH. Maternal-fetal glucose gradient in normal pregnancies and in pregnancies complicated by alloimmunization and fetal growth retardation. 1989;161:924-7
— (see Hubinont et al). 1989;161:306-7
Nicol JJ, Cox PJ. Leiomyoma of the ovary with ascites and hydrothorax. 1989;161:177-8
Nielsen MD (see Wilken-Jensen et al). 1989;161:155-6
Niklinski W. Which is better, being small or thin? 1989;161:1089-90 (Letter)
Nishiyama M (see Gimovsky and Nishiyama). 1989;161:332-4
Nochimson DJ (see Vintzileos et al). 1989;161:606-12
Nolan TE (see Yetman and Nolan). 1989;161:1119-23
Nonogaki H (see Nanbu et al). 1989;161:462-7
Norman RJ. Analytical and clinical sensitivity and specificity in pregnancy testing. 1989;161:835 (Letter)
Norris HJ (see Hartge et al). 1989;161:10-6 (Clin. opinion)
Notelovitz M. Estrogen replacement therapy: indications, contraindications, and agent selection. 1989;161:1832-41 (Symposium)
— (see Martin et al). 1989;161:1127-32
— (see Mazess et al). 1989;161:843-8 (Clin. opinion)
Noyszewski EA, Raman J, Trupin SR, McFarlin BL, Dawson MJ. Phosphorus 31 nuclear magnetic resonance examination of female reproductive tissues. 1989;161:282-8
Nozawa S, Sakayori M, Ohta K, Iizuka R, Mochizuki H, Soma M, Fujimoto J-I, Hata J-I, Iwamori M, Nagai Y. A monoclonal antibody (MSN-1) against a newly established uterine endometrial cancer cell line (SNG-II) and its application to immunohistochemistry and flow cytometry. 1989;161:1079-86
Nunley WC Jr, Kolp LA, Dabinett LN, Kitchin JD III, Bate-man BG, Craddock GB Jr. Subsequent fertility in women who undergo cardiac surgery. 1989;161:573-6

O

- O'Brien TJ (see Quirk and O'Brien). 1989;161:1747-8 (Letter reply)
O'Connor TZ (see Goldstein et al). 1989;161:1235-8
Odom LD, Barrett JM, Pantazis CG, Stoddard LD, McDonough PG. Immunocytochemical study of *ras* and *myc* proto-oncogene polypeptide expression in the human menstrual cycle. 1989;161:1663-8
O'Donnell KJ (see Hume et al). 1989;161:685-90
Oehninger S (see Archer et al). 1989;161:581-92
Oettinger M (see Ophir et al). 1989;161:25-8
Ogburn PL Jr, Goldstein M, Walker J, Stonestreet BS. Prolonged hyperinsulinemia reduces plasma fatty acid levels in the major lipid groups in fetal sheep. 1989;161:728-32

- (see Stonestreet et al). 1989;161:894-9
 Ogita S (see Imanaka et al). 1989;161:102-6
 Oh W (see Stonestreet et al). 1989;161:894-9
 Ohta K (see Nozawa et al). 1989;161:1079-86
 O'kroy J (see Martin et al). 1989;161:1127-32
 Olson SB (see Clark et al). 1989;161:301-2
 Olt GJ (see Berchuck et al). 1989;161:1247-52
 Ooshima A (see Nakano et al). 1989;161:905-10
 Oosting H (see Wolf et al). 1989;161:1140-5
 Ophir E, Oettinger M, Yagoda A, Markovits Y, Rojansky N, Shapiro H. Breech presentation after cesarean section: always a section. 1989;161:25-8
 Orderica SA (see Hoskins et al). 1989;161:1543-5
 Orsini LF (see Porcu et al). 1989;161:174-7
 Osborne MA (see Cucco et al). 1989;161:916-20
 Ostrea EM Jr (see Reyes et al). 1989;161:977-81
 O'Sullivan MJ (see Burkett et al). 1989;161:540-7
 Otken LB Jr (see Gallup et al). 1989;161:533-9
 Ouyang P-C (see Ho et al). 1989;161:942-8
 Ouzounian JG (see Masaki et al). 1989;161:680-4
 Ovadia Y (see Schoenfeld et al). 1989;161:1204-5
 Owen J, Stedman CM, Tucker TL. Comparison of predelivery versus postdelivery Kleihauer-Betke stains in cases of fetal death. 1989;161:663-6
 Oyarzun E (see Romero et al). 1989;161:336-41
 — (see Romero et al). 1989;161:817-24

P

- Paavonen J, Roberts PL, Stevens CE, Wölner-Hanssen P, Brunham RC, Hillier S, Stamm WE, Kuo C-C, DeRouen T, Holmes KK, Eschenbach DA. Randomized treatment of mucopurulent cervicitis with doxycycline or amoxicillin. 1989;161:128-35
 Pahwa S (see Biggar et al). 1989;161:1239-44
 Palan PR, Mikhail M, Romney SL. Decreased β -carotene tissue levels in uterine leiomyomas and cancers of reproductive and nonreproductive organs. 1989;161:1649-52
 —, Romney SL, Vermund SH, Mikhail MG, Basu J. Effects of smoking and oral contraception on plasma β -carotene levels in healthy women. 1989;161:881-5
 Palmer JR (see Rosenberg et al). 1989;161:1087-8 (Letter)
 Palti Z, Rosenn B, Goshen R, Ben-Chitrit A, Yagel S. Successful treatment of a viable cervical pregnancy with methotrexate. 1989;161:1147-8
 Pankuch GA, Cherouny PH, Botti JJ, Appelbaum PC. Amniotic fluid leukotaxis assay as an early indicator of chorioamnionitis. 1989;161:802-7
 Panos MZ, Nicolaidis KH, Anderson JV, Economides DL, Rees L, Williams R. Plasma atrial natriuretic peptide in human fetus: response to intravascular blood transfusion. 1989;161:357-61
 Pansky M, Bukovsky I, Golan A, Langer R, Schneider D, Arieli S, Caspi E. Local methotrexate injection: a nonsurgical treatment of ectopic pregnancy. 1989;161:393-6
 Pantazis CG (see Odom et al). 1989;161:1663-8
 Paradisi R (see Porcu et al). 1989;161:174-7
 Parazzini F (see Sideri et al). 1989;161:38-42
 Paret G (see Lipitz et al). 1989;161:1279-84
 Parisi VM, Salinas J, Stockmar EJ. Fetal vascular responses to maternal nicardipine administration in the hypertensive ewe. 1989;161:1035-9
 —, —, —. Placental vascular responses to nicardipine in the hypertensive ewe. 1989;161:1039-43
 — (see Peaceman et al). 1989;161:771-4
 — (see Thorp et al). 1989;161:600-5
 — (see Thorp et al). 1989;161:670-5
 Parker CR Jr, MacDonald PC, Guzick DS, Porter JC, Rosenfeld CR, Hauth JC. Prolactin levels in umbilical cord blood of human infants: relation to gestational age, maternal complications, and neonatal lung function. 1989;161:795-802
 Parnet F (see Poissonnier et al). 1989;161:709-13
 Parra J (see Quilez et al). 1989;161:1426-7 (Letter)
 Parvez H (see Castro et al). 1989;161:1620-3
 Pascoe-Mason J (see FitzSimmons et al). 1989;161:1174-7
 Patil RK (see Puri et al). 1989;161:248-53
 Patriarco MS. Does terbutaline cause uterine atony and increase intraoperative blood loss? 1989;161:259 (Letter reply)
 Patrick J (see Gagnon et al). 1989;161:1479-85
 Patsch W, Brown SA, Gotto AM Jr, Young RL. The effect of triphasic oral contraceptives on plasma lipids and lipoproteins. 1989;161:1396-401 (Symposium)
 Patterson RM. Which is better, being small or thin? 1989;161:1090 (Letter reply)
 Pattison NS (see Roberts et al). 1989;161:42-6
 Patton PE (see Burry et al) (1989;160:1454-61). 1989;161:1755 (Correction)
 Paulson R[†] (see Sauer et al). 1989;161:380-1
 — (see Sauer et al). 1989;161:1673-6
 Peaceman AM, Meyer BA, Thorp JA, Parisi VM, Creasy RK. The effect of magnesium sulfate tocolysis on the fetal biophysical profile. 1989;161:771-4
 Peiffer M (see Bracero et al). 1989;161:388-93
 Peisner DB (see Timor-Tritsch et al). 1989;161:157-61
 — (see Timor-Tritsch et al). 1989;161:831-3
 — (see Warren et al). 1989;161:747-53
 Pelzer GD (see Weiner et al). 1989;161:714-7
 — (see Weiner et al). 1989;161:1498-501
 Penry M (see Kofinas et al). 1989;161:1536-9
 Pernoll ML (see Smith et al). 1989;161:879-80
 Perry SM (see Kambam et al). 1989;161:1754-5 (Letter reply)
 Pershe R (see Ferguson et al). 1989;161:1485-90
 Persutte WH (see DeRosa et al). 1989;161:690-2
 Peters MT, Lockwood CJ, Miller WA. The efficacy of fetal sonographic biometry in Down syndrome screening. 1989;161:297-300
 — (see Rabinowitz et al). 1989;161:1264-6
 Petersen R, Carter LS, Chescheir NC, Katz VL, Cefalo RC. Effects of terbutaline sulfate on fetal cardiac function. 1989;161:509-12
 Peterson CM (see Jovanovic-Peterson et al). 1989;161:415-9
 Peterson HB (see Mitchell et al). 1989;161:576-80
 Petrie RH (see Sadovsky et al). 1989;161:613-7
 Petrikovsky BM, Cohen M, Tancer ML. Usefulness of continuous fetal heart rate monitoring during cesarean section. 1989;161:36-7
 — (see Vintzileos et al). 1989;161:606-12
 Petrock E, Wassman R, Kelly JC. Prenatal screening for Down syndrome with maternal serum human chorionic gonadotropin levels. 1989;161:1168-73
 — (see Kelly et al). 1989;161:703-5
 Petru E, Tamussino K, Lahousen M, Winter R, Pickel H, Haas J. Pelvic and paraaortic lymphocysts after radical surgery because of cervical and ovarian cancer. 1989;161:937-41
 Phelan JP (see Clark et al). 1989;161:1439-42
 — (see Rodriguez et al). 1989;161:666-9
 — (see Sarno et al). 1989;161:1508-14
 — (see Strong et al). 1989;161:29-32
 Phernetton TM (see Reid et al). 1989;161:229-33
 Philipson EH (see Rossi et al). 1989;161:1106-10

- Phillippe M (see Greene et al). 1989;161:106-11
— (see Rotmensch et al). 1989;161:855-6 (Clin. opinion)
- Philput CB (see Archer et al). 1989;161:581-92
- Photopoulos G (see Sutton et al). 1989;161:309-12
- Pickel H (see Petru et al). 1989;161:937-41
- Pielet BW (see MacGregor et al). 1989;161:1491-3
— (see Socol et al). 1989;161:255-6 (Letter reply)
- Pijpers L, Reuss A, Stewart PA, Wladimiroff JW. Noninvasive management of isolated bilateral fetal hydrothorax. 1989;161:330-2
- Pinckert TL, Lebo RV, Golbus MS. Rapid determination of fetal sex by deoxyribonucleic acid amplification of Y chromosome-specific sequences. 1989;161:693-8
- Pinette MG (see Vintzileos et al). 1989;161:606-12
- Pipkin FB (see Firth and Pipkin). 1989;161:1318-9
- Pircon RA, Strassner HT, Kirz DS, Towers CV. Controlled trial of hydration and bed rest versus bed rest alone in the evaluation of preterm uterine contractions. 1989;161:775-9
- Pirrone E (see Timor-Tritsch et al). 1989;161:831-3
- Pitkänen O (see Hallman et al). 1989;161:313-8
- Piura B. Nerve entrapment after Pfannenstiel incision. 1989;161:499-500 (Letter)
— (see Glezerman et al). 1989;161:1186-90
- Pivarnik J (see Clark et al). 1989;161:1439-42
- Piver MS. Standard administration of hydroxyurea recommended. 1989;161:1425-6 (Letter)
- Platt LD (see Brar et al). 1989;161:1519-22
— (see Sarno et al). 1989;161:1508-14
— (see Small et al). 1989;161:323-9
- Poissonnier M-H, Brossard Y, Demedeiros N, Vassileva J, Parinet F, Larsen M, Gosset M, Chavanie J, Huchet J. Two hundred intrauterine exchange transfusions in severe blood incompatibilities. 1989;161:709-13
- Pokul RK (see Smith et al). 1989;161:911-5
- Pollack KL (see Chestnut et al). 1989;161:1571-5
- Poole WK (see Haning et al). 1989;161:1549-53
- Porcu E, Venturoli S, Fabbri R, Orsini LF, Syanga E, Brondelli L, Paradisi R, Flamigni C. Uterine development and endocrine relationships after menarche. 1989;161:174-7
- Porter JC (see Parker et al). 1989;161:795-802
- Porter KB (see Sims et al). 1989;161:532-3
- Prem KA (see Borazjani et al). 1989;161:1253-7
- Pretorius DH (see Russ et al). 1989;161:401-6
- Pridjian G, Moawad AH. Missed abortion: Still appropriate terminology? 1989;161:261-2 (Clin. opinion)
- Pulkkinen MO, Jaakkola U-M. Low serum progesterone levels and tubal dysfunction—a possible cause of ectopic pregnancy. 1989;161:934-7
- Puri CP, Patil RK, Kholkute SD, Elger WAG, Swamy XR. Progesterone antagonist lilepristone: a potent abortifacient in the common marmoset. 1989;161:248-53

Q

- Queenan JT (see Ananth and Queenan). 1989;161:47-9
- Quilez M, de las Heras P, Delgado E, Vaz M, Parra J, Bel-lart J, Salamero F, Llauredó A, Esteban-Altririba J. Double endometrial aspirative biopsy. 1989;161:1426-7 (Letter)
- Quilligan EJ (see Brewer et al). 1989;161:840 (Letter reply)
- Quirk JC Jr, O'Brien TJ. Other routes charted after description of adventurous journey of CA 125. 1989;161:1747-8 (Letter reply)
- Quirke P (see Thornton et al). 1989;161:487-92

R

- Rabinowitz R, Peters MT, Vyas S, Campbell S, Nicolaides KH. Measurement of fetal urine production in normal pregnancy by real-time ultrasonography. 1989;161:1264-6
- Radley T (see Tuttle et al). 1989;161:1319-23
- Rafkin D (see Thomas et al). 1989;161:141-5
- Raju S (see Warren et al). 1989;161:747-53
- Ralph MM (see Andrianakis et al). 1989;161:241-7
- Raman J (see Noyszewski et al). 1989;161:282-8
- Rando RF, Lindheim S, Hasty L, Sedlacek TV, Woodland M, Eder C. Increased frequency of detection of human papillomavirus deoxyribonucleic acid in exfoliated cervical cells during pregnancy. 1989;161:50-5
— (see Sedlacek et al). 1989;161:55-9
- Rankin JHG (see Reid et al). 1989;161:229-33
- Räsänen J, Kirkinen P, Jouppila P. Right ventricular dysfunction in human fetal compromise. 1989;161:136-40
- Raskin P (see Lucas et al). 1989;161:426-31
- Rathke A (see Rayburn et al). 1989;161:202-6
- Ratts TE (see Mabie et al). 1989;161:1443-8
- Rayburn W, Rathke A, Leuschen P, Chleborad J, Weidner W. Fentanyl citrate analgesia during labor. 1989;161:202-6
- Reamy KJ. Semantic changes suggested in hypertensive disorders. 1989;161:1422 (Letter)
- Reddy S (see Tuttle et al). 1989;161:1319-23
- Redwine DB. Peritoneal blood painting: an aid in the diagnosis of endometriosis. 1989;161:865-6
- Reece EA (see Goldstein et al). 1989;161:1235-8
— (see Winn et al). 1989;161:1540-2
- Reed KL, Appleton CP, Sahn DJ, Anderson CF. Human fetal tricuspid and mitral deceleration time: changes with normal pregnancy and intrauterine growth retardation. 1989;161:1532-5
- Rees L (see Panos et al). 1989;161:357-61
- Reichman B (see Lipitz et al). 1989;161:1279-84
- Reid DL, Hollister MC, Davidson SR, Phernetton TM, Rankin JHG. Uncoupling of excitation from contraction in uterine smooth muscle in near-term ewes. 1989;161:229-33
- Repke J (see Villar et al). 1989;161:1019-24
- Resnick MB, Carter RL, Ariet M, Bucciarelli RL, Evans JH, Furlough RR, Ausbon WW, Curran JS. Effect of birth weight, race, and sex on survival of low-birth-weight infants in neonatal intensive care. 1989;161:184-7
- Retzky SS (see Neerhof et al). 1989;161:633-8
- Reuss A (see Pijpers et al). 1989;161:330-2
- Reyes MP, Ostrea EM Jr, Cabinian AE, Schmitt C, Rintelmann W. Vancomycin during pregnancy: Does it cause hearing loss or nephrotoxicity in the infant? 1989;161:977-81
- Rhoads G (see Villar et al). 1989;161:1019-24
- Richard M (see Brawer et al). 1989;161:474-80
- Ricker DD (see Minhas et al). 1989;161:1714-7
- Riedmiller H (see Bürger et al). 1989;161:162-7
- Rintelmann W (see Reyes et al). 1989;161:977-81
- Ritchie JWK (see Morrow et al). 1989;161:1055-60
- Ritter DB (see Goldberg et al). 1989;161:1669-72
- Rizk B (see Kingsland et al). 1989;161:381-2
- Roberts AB, Mitchell JM, Pattison NS. Fetal liver length in normal and isoimmunized pregnancies. 1989;161:42-6
- Roberts JA (see Winn et al). 1989;161:1540-2
- Roberts JM, Taylor RN, Musci TJ, Rodgers GM, Hubel CA, McLaughlin MK. Preeclampsia: an endothelial cell disorder. 1989;161:1200-4
— (see Hubel et al). 1989;161:1025-34 (Curr. dev.)
— (see Lee et al). 1989;161:1044-9

- Roberts PL (see Paavonen et al). 1989;161:128-35
- Robillard JE (see Chestnut et al). 1989;161:1571-5
- (see Weiner and Robillard). 1989;161:1494-7
- Robson SC, Hunter S, Boys RJ, Dunlop W. Hemodynamic changes during twin pregnancy: a Doppler and M-mode echocardiographic study. 1989;161:1273-8
- Rochelson BL (see Abitbol et al). 1989;161:1324-31
- Rodeck CH (see Hubinont et al). 1989;161:306-7
- (see Nicolini et al). 1989;161:924-7
- (see Nicolini et al). 1989;161:1098-101 (Clin. opinion)
- Rodgers GM (see Roberts et al). 1989;161:1200-4
- Rodis JF (see Vintzileos et al). 1989;161:606-12
- Rodriguez MH, Masaki DI, Phelan JP, Diaz FG. Uterine rupture: Are intrauterine pressure catheters useful in the diagnosis? 1989;161:666-9
- Rogers GM (see Hubel et al). 1989;161:1025-34 (Curr. dev.)
- Rogers RE (see Sutton et al). 1989;161:73-5
- Rognoni MT (see Sideri et al). 1989;161:38-42
- Rojansky N (see Ophir et al). 1989;161:25-8
- Rokey R (see Lee and Rokey). 1989;161:1749-50 (Letter reply)
- (see Lee et al). 1989;161:974-7
- Roll KE (see Castro et al). 1989;161:623-7
- (see Castro et al) (1989;161:623-7). 1989;161:1238 (Correction)
- Romanoff ME (see Woodward and Romanoff). 1989;161:837-8 (Letter)
- Romem Y (see Artal et al). 1989;161:1464-9
- Romero R, Manogue KR, Mitchell MD, Wu YK, Oyarzun E, Hobbins JC, Cerami A. Infection and labor. IV. Cachectin-tumor necrosis factor in the amniotic fluid of women with intraamniotic infection and preterm labor. 1989;161:336-41
- , Sirtori M, Oyarzun E, Avila C, Mazor M, Callahan R, Sabo V, Athanassiadis AP, Hobbins JC. Infection and labor. V. Prevalence, microbiology, and clinical significance of intraamniotic infection in women with preterm labor and intact membranes. 1989;161:817-24
- (see Lockwood et al). 1989;161:369-73
- Romney SL (see Palan et al). 1989;161:881-5
- (see Palan et al). 1989;161:1649-52
- Ron-El R, Weinraub Z, Langer R, Bukovsky I, Caspi E. The importance of ultrasonography in infertile women with "forgotten" intrauterine contraceptive devices. 1989;161:211-2
- Ronen N (see Urbach et al). 1989;161:953-9
- Rönnerberg L (see Telimaa et al). 1989;161:866-71
- Rose JC (see Hatjis et al). 1989;161:1015-9
- Rosen MG (see Warren et al). 1989;161:747-53
- Rosenberg L, Palmer JR, Shapiro S. Gestational trophoblastic disease and use of oral contraceptives. 1989;161:1087-8 (Letter)
- Rosenfeld CR (see Parker et al). 1989;161:795-802
- Rosenkilde-Gram B (see Wilken-Jensen et al). 1989;161:155-6
- Rosenn B (see Palti et al). 1989;161:1147-8
- Rosenshein N (see Sutton et al). 1989;161:309-12
- Rosenzweig BA (see Rotmensh et al). 1989;161:855-6 (Clin. opinion)
- Ross B (see Archer et al). 1989;161:581-92
- Ross MG, Sherman DJ, Ervin MG, Day L, Humme J. Stimuli for fetal swallowing: systemic factors. 1989;161:1559-65
- (see Castro et al). 1989;161:1337-43
- Rossi EM, Philipson EH, Williams TG, Kalhan SC. Meconium aspiration syndrome: intrapartum and neonatal attributes. 1989;161:1106-10
- Roth LM (see Sutton et al). 1989;161:73-5
- Rothman KJ (see Milunsky et al). 1989;161:291-7
- Rotmensh S, Rosenzweig BA, Phillippe M. The impact of the acquired immunodeficiency syndrome epidemic on the philosophy of childbirth. 1989;161:855-6 (Clin. opinion)
- Rottem S (see Bronshtein et al). 1989;161:78-82
- Roudebush WE (see Minhas et al). 1989;161:1714-7
- Rudelstorfer R (see Bernaschek and Rudelstorfer). 1989;161:499 (Letter reply)
- Ruedrich DA, Devoe LD, Searle N. Effects of maternal hyperoxia on the biophysical assessment of fetuses with suspected intrauterine growth retardation. 1989;161:188-92
- (see Devoe et al). 1989;161:524-9
- Ruissen CJ (see van Huisseling et al). 1989;161:1061-4
- Russ PD, Pretorius DH, Johnson MJ. Dandy-Walker syndrome: a review of fifteen cases evaluated by prenatal sonography. 1989;161:401-6
- Rutherford SE (see Artal et al). 1989;161:1464-9
- Ryan G, Lange IR, Naugler MA. Clinical experience with phenytoin prophylaxis in severe preeclampsia. 1989;161:1297-304 (Curr. invest.)
- Ryan KJ (see Lieberman et al). 1989;161:1750-1 (Letter reply)

S

- Sabbagha RE (see Socol et al). 1989;161:255-6 (Letter reply)
- Sabo V (see Romero et al). 1989;161:817-24
- Sacks DA, Abu-Fadil S, Greenspoon JS, Fotheringham N. Do the current standards for glucose tolerance testing in pregnancy represent a valid conversion of O'Sullivan's original criteria? 1989;161:638-41
- , —, —, —. How reliable is the fifty-gram, one-hour glucose screening test? 1989;161:642-5
- , Garratty G. Isoimmunization to Cromer antigen in pregnancy. 1989;161:928-9
- Sadovsky G (see Nicolaides et al). 1989;161:351-6
- Sadovsky Y, Amon E, Bade ME, Petrie RH. Prophylactic amnioinfusion during labor complicated by meconium: a preliminary report. 1989;161:613-7
- Sahn DJ (see Reed et al). 1989;161:1532-5
- St. Clair PJ (see Silver et al). 1989;161:808-12
- Sajda P (see Macri et al). 1989;161:254-5 (Letter reply)
- Sakayori M (see Nozawa et al). 1989;161:1079-86
- Salafia C (see Winn et al). 1989;161:1540-2
- Salamero F (see Quilez et al). 1989;161:1426-7 (Letter)
- Salinas J (see Parisi et al). 1989;161:1035-9
- (see Parisi et al). 1989;161:1039-43
- Saltzman DH (see Greene et al). 1989;161:106-11
- Salvador HS, Koos BJ. Effects of regular and decaffeinated coffee on fetal breathing and heart rate (1989;160:1043-7). 1989;161:669 (Correction)
- Sampson JE (see Thorp et al). 1989;161:600-5
- Santolaya J (see Nicolini et al). 1989;161:924-7
- Sanyal MK, Bami CJ, Bischof P, Simmons E, Barnea ER, Dwyer JM, Naftolin F. Immunoregulatory activity in supernatants from cultures of normal human trophoblast cells of the first trimester. 1989;161:446-53
- Saraf V (see Abitbol et al). 1989;161:1324-31
- Sarno AP Jr, Ahn MO, Brar HS, Phelan JP, Platt LD. Intrapartum Doppler velocimetry, amniotic fluid volume, and fetal heart rate as predictors of subsequent fetal distress. I. An initial report. 1989;161:1508-14
- (see Strong et al). 1989;161:29-32
- Sassoon DA (see Castro et al). 1989;161:623-7
- Sauer MV, Anderson RE, Vermesh M, Stone BA, Paulson RJ. Spontaneously resorbing ectopic pregnancy: preservation

- of human chorionic gonadotropin bioactivity despite declining steroid hormone levels. 1989;161:1673-6
- , Lobo RA, Paulson RJ. Successful twin pregnancy after embryo donation to a patient with XY gonadal dysgenesis. 1989;161:380-1
- Sawers RS (see Tang and Sawers). 1989;161:172-3
- Schemper M (see Sevela et al). 1989;161:1213-6
- Scherl JE (see Greene et al). 1989;161:106-11
- Schiff I (see Mazess et al). 1989;161:843-8 (Clin. opinion)
- Schiffman MH (see Goldberg et al). 1989;161:1669-72
- (see Hargre et al). 1989;161:10-6 (Clin. opinion)
- Schifman RB. Role of ferritin supported in diagnosis of anemias of pregnancy. 1989;161:258-9 (Letter reply)
- Schlafer DH (see Block et al). 1989;161:1576-9
- Schmitt C (see Reyes et al). 1989;161:977-81
- Schnatterly PT (see Hogge et al). 1989;161:520-4
- Schneider D (see Pansky et al). 1989;161:393-6
- Schoenbaum SC (see Lieberman et al). 1989;161:1750-1 (Letter reply)
- Schoenfeld A, Freedman S, Hod M, Ovadia Y. Antagonism of antihypertensive drug therapy in pregnancy by indomethacin? 1989;161:1204-5
- Schreyer P, Caspi E, Natan NB, Tal E, Weinraub Z. The predictive value of fetal breathing movement and Bishop score in the diagnosis of "true" preterm labor. 1989;161:886-9
- Schulman H. Systolic/diastolic ratios and waveform shapes. 1989;161:1421 (Letter reply)
- (see Bracero et al). 1989;161:388-93
- Schutz T (see Ferguson et al). 1989;161:788-95
- (see Ferguson et al). 1989;161:1485-90
- Scott JS (see Taylor et al). 1989;161:377-9
- Scott RT (see Archer et al). 1989;161:581-92
- Searle NA (see Devoe et al). 1989;161:524-9
- (see Ruedrich et al). 1989;161:188-92
- Sedlacek TV, Lindheim S, Eder C, Hasty L, Woodland M, Ludomirsky A, Rando RF. Mechanism for human papillomavirus transmission at birth. 1989;161:55-9
- (see Rando et al). 1989;161:50-5
- Seeds JW (see Katz and Seeds). 1989;161:1-9 (Clin. opinion)
- Seguin EM (see Hendricks et al). 1989;161:761-5
- Sellers JD, Block FE Jr, McDonald JS. Anesthetic management of labor in a patient with dextrocardia, congenitally corrected transposition, Wolff-Parkinson-White syndrome, and congestive heart failure. 1989;161:1001-3
- Semchyshyn S. Calcium intake and pregnancy-induced hypertension. 1989;161:834 (Letter)
- Seppälä M (see Telimaa et al). 1989;161:866-71
- Serr DM (see Lipitz et al). 1989;161:1279-84
- Seski J (see Ho et al). 1989;161:942-8
- Settlage RH (see Greenspoon and Settlage). 1989;161:501-2 (Letter)
- Sevela P, Schemper M, Spona J. CA 125 as an independent prognostic factor for survival in patients with epithelial ovarian cancer. 1989;161:1213-6
- Sganga E (see Porcu et al). 1989;161:174-7
- Shafik A. Anal submucosal injection: a new route for drug administration in pelvic malignancies. IV. Submucosal anal injection in the treatment of cancer of uterine cervix—preliminary study. 1989;161:69-72
- Shah DM, Boehm FH. Fetal blood gas analysis from cordocentesis for abnormal fetal heart rate patterns. 1989;161:374-6
- Shahbazian VL (see Steinleitner et al). 1989;161:1677-81
- Shalev J (see Lipitz et al). 1989;161:1279-84
- Shan DM, Chaffin D. Perinatal outcome in very preterm births with twin-twin transfusion syndrome. 1989;161:1111-3
- Shanklin DR, Sibai BM. Ultrastructural aspects of preeclampsia. I. Placental bed and uterine boundary vessels. 1989;161:735-41
- Shapiro H (see Ophir et al). 1989;161:25-8
- Shapiro S (see Rosenberg et al). 1989;161:1087-8 (Letter)
- Shapiro SS (see Wapner et al). 1989;161:1271-2
- Sharpe D (see Johnson et al). 1989;161:289-90
- Shelden RM (see Corsan et al). 1989;161:1751-2 (Letter)
- Shepard TH (see FitzSimmons et al). 1989;161:1174-7
- Sherman DJ (see Castro et al). 1989;161:1337-43
- (see Ross et al). 1989;161:1559-65
- Shima K (see Nakano et al). 1989;161:905-10
- Sholl JS (see MacGregor et al). 1989;161:1491-3
- Shulman S. Dosage and duration differences lead to diverse conclusions. 1989;161:1744-5 (Letter)
- , Sperm antibodies and infertility. 1989;161:497-8 (Letter)
- Sibai BM, Villar L MA, Bray E. Magnesium supplementation during pregnancy: a double-blind randomized controlled clinical trial. 1989;161:115-9
- (see Ahokas et al). 1989;161:618-22
- (see Mabie et al). 1989;161:1443-8
- (see Shanklin and Sibai). 1989;161:735-41
- (see Skoll et al). 1989;161:813-6
- Sideri M, Parazzini F, Rognoni MT, La Vecchia C, Negri E, Garsia S, Arnoletti E, Cecchetti G. Risk factors for vulvar lichen sclerosis. 1989;161:38-42
- Silver HM, Sperling RS, St. Clair PJ, Gibbs RS. Evidence relating bacterial vaginosis to intraamniotic infection. 1989;161:808-12
- Silver RK, MacGregor SN, Hobart ED. Impact of residual amniotic fluid volume in patients receiving parenteral tocolysis after premature rupture of the membranes. 1989;161:784-7
- , Minogue J. Basic reference gambles recommended for utility assessment. 1989;161:257 (Letter reply)
- (see Farrell et al). 1989;161:628-33
- (see MacGregor et al). 1989;161:1491-3
- Simmons E (see Sanyal et al). 1989;161:446-53
- Simon NV (see Stefos et al). 1989;161:179-83
- Simpson JL (see Tipton et al). 1989;161:1546-8
- Sims CJ, Porter KB, Knuppel RA. Successful pregnancy after a liver transplant. 1989;161:532-3
- Sims HF (see Gast et al). 1989;161:1726-31
- Singer CRJ (see Walker et al). 1989;161:676-9
- Sippo WC. Nerve entrapment after Pfannenstiel incision. 1989;161:500 (Letter reply)
- Sirtori M (see Romero et al). 1989;161:817-24
- Sivakoff M (see Veille et al). 1989;161:1610-4
- Sjöblom P (see Lindblom et al). 1989;161:397-400
- Sklar A (see Divon et al). 1989;161:757-60
- Skoll MA, Moretti ML, Sibai BM. The incidence of positive amniotic fluid cultures in patients in preterm labor with intact membranes. 1989;161:813-6
- Skurnick JH (see Goldsmith et al). 1989;161:1644-9
- Slavik TA (see Timor-Tritsch et al). 1989;161:157-61
- Small ML, Beall M, Platt LD, Dirks D, Hochberg H. Continuous tissue pH monitoring in the term fetus. 1989;161:323-9
- Small SL, Muechler EK. Heuristic determination of relevant diagnostic procedures in a medical expert system for gynecology. 1989;161:17-24 (Clin. opinion)
- Smith BE (see Kambam et al). 1989;161:1754-5 (Letter reply)

- Smith CV. *Candida* warrants concern. 1989;161:503 (Letter reply)
- Smith DM, Groff DE, Pokul RK, Bear JL, Delgado G. Determination of cellular oncogene rearrangement or amplification in ovarian adenocarcinomas. 1989;161:911-5
- Smith LG Jr, Summers PR, Biswas MK, Gurr DE, Lund P, Pernoll ML. High hepatitis B carrier rate among non-Oriental patients with acute salpingitis. 1989;161:879-80
- Smith LJ (see Alvarez et al). 1989;161:1653-7
- Smolarczyk R (see Wójcicka-Jagodzińska et al). 1989;161:959-64
- Snyder SW, Cardwell MS. Neuromuscular blockade with magnesium sulfate and nifedipine. 1989;161:35-6
- (see Cardwell and Snyder). 1989;161:1744 (Letter)
- Sobhi S (see Little et al). 1989;161:732-4
- Socol ML, MacGregor SN, Pielek BW, Tamura RK, Sabbagha RE. Frequency and timing of intravascular intrauterine transfusions reconsidered. 1989;161:255-6 (Letter reply)
- (see MacGregor et al). 1989;161:1491-3
- Soisson AP, Berchuck A, Lessey BA, Soper JT, Clarke-Pearson DL, McCarty KS Jr, Bast RC Jr. Immunohistochemical expression of TAG-72 in normal and malignant endometrium: correlation of antigen expression with estrogen receptor and progesterone receptor levels. 1989;161:1258-63
- (see Berchuck et al). 1989;161:1247-52
- Sokol RJ (see Sowers et al). 1989;161:441-5
- Soma M (see Nozawa et al). 1989;161:1079-86
- Song H-Z (see Brinton et al). 1989;161:121-7
- Soothill PW (see Nicolaides et al). 1989;161:996-1001
- Soper DE, Mayhall CG, Dalton HP. Risk factors for intraamniotic infection: a prospective epidemiologic study. 1989;161:562-8
- (see McGregor et al). 1989;161:987-95
- Soper JT (see Berchuck et al). 1989;161:1247-52
- (see Soisson et al). 1989;161:1258-63
- Sorensen TK (see Hendricks et al). 1989;161:761-5
- Southwick J (see Clark et al). 1989;161:1439-42
- Sowers JR, Zemel MB, Bronsteen RA, Zemel PC, Walsh MF, Standley PR, Sokol RJ. Erythrocyte cation metabolism in preeclampsia. 1989;161:441-5
- Spellacy WN. Neonatal seizures and cesarean section. 1989;161:837 (Letter reply)
- Sperling RS (see Silver et al). 1989;161:808-12
- Spillman T (see Clark et al). 1989;161:1439-42
- Spinnato JA, Allen RD, Mendenhall HW. Birth weight prediction from remote ultrasonographic examination. 1989;161:742-7
- Spitz B (see Ballegeer et al). 1989;161:432-6
- Spitzer C (see Goldberg et al). 1989;161:1669-72
- Spona J (see Sevela et al). 1989;161:1213-6
- Stafford JA (see Biddinger et al). 1989;161:1744 (Letter reply)
- Stalter P (see Bracero et al). 1989;161:388-93
- Stamm WE (see Paavonen et al). 1989;161:128-35
- Stanczyk FZ (see Matteri et al). 1989;161:1704-9
- (see Steinleitner et al). 1989;161:1677-81
- Standley PR (see Sowers et al). 1989;161:441-5
- Stanger CL (see Hume et al). 1989;161:685-90
- Stedman CM (see Owen et al). 1989;161:663-6
- Stefos T, Deter RL, Hill RM, Simon NV. Individual growth curve standards in twins: prediction of third-trimester growth and birth characteristics. 1989;161:179-83
- Stehman FB, Bundy BN. Standard administration of hydroxyurea recommended. 1989;161:1426 (Letter reply)
- Steingold KA (see Van Voorhis et al). 1989;161:1698-703
- Steinleitner A, Stanczyk FZ, Levin JH, d'Ablaing G III, Vijod MA, Shahbazian VL, Lobo RA. Decreased in vitro production of 6-keto-prostaglandin $F_{1\alpha}$ by uterine arteries from postmenopausal women. 1989;161:1677-81
- Stephens JD. Empty bladder recommended in initial ultrasonographic examinations. 1989;161:1088-9 (Letter)
- Unexplained elevated maternal serum α -fetoprotein level associated with third-trimester problems. 1989;161:500 (Letter)
- Stern W (see Abitbol et al). 1989;161:1324-31
- Stevens CE (see Paavonen et al). 1989;161:128-35
- Stevenson DK (see Ferguson et al). 1989;161:788-95
- (see Ferguson et al). 1989;161:1485-90
- Stewart PA (see Pijpers et al). 1989;161:330-2
- Stillier RJ, de Regt RH, Blair E. Transvaginal ultrasonography in patients at risk for ectopic pregnancy. 1989;161:930-3
- Stockmar EJ (see Parisi et al). 1989;161:1035-9
- (see Parisi et al). 1989;161:1039-43
- Stoddard LD (see Odom et al). 1989;161:1663-8
- Stolk HG (see Helmerhorst et al). 1989;161:1191-4
- Stone BA (see Sauer et al). 1989;161:1673-6
- Stonestreet BS, Ogburn PL Jr, Goldstein M, Oh W, Widness JA. Effects of chronic fetal hyperinsulinemia on plasma arachidonic acid and prostaglandin concentrations. 1989;161:894-9
- (see Ogburn et al). 1989;161:728-32
- Strassner HT (see Pircon et al). 1989;161:775-9
- Strauss AW (see Gast et al). 1989;161:1726-31
- Strøm V (see Wilken-Jensen et al). 1989;161:155-6
- Strobino D (see Thomas et al). 1989;161:141-5
- Strong TH Jr, Phelan JP, Ahn MO, Sarno AP Jr. Vaginal birth after cesarean delivery in the twin gestation. 1989;161:29-32
- Stroud A (see Hatjis et al). 1989;161:1015-9
- Stuart CA (see Nagamani et al). 1989;161:1738-43
- Stumpf PG (see Veldhuis et al). 1989;161:1149-58
- Stumpf WE, Denny ME. Vitamin D (solatriol), light, and reproduction. 1989;161:1375-84 (Curr. dev.)
- Sueoka K (see Katz et al). 1989;161:1351-6
- Sugawa T (see Imanaka et al). 1989;161:102-6
- Suikkari A-M (see Telimaa et al). 1989;161:866-71
- Sullivan TP (see Neerhof et al). 1989;161:633-8
- Summers PR (see Smith et al). 1989;161:879-80
- Sutton B (see Eddie et al). 1989;161:970-3
- Sutton GP, Blessing JA, Rosenshein N, Photopoulos G, DiSaia PJ. Phase II trial of ifosfamide and mesna in mixed mesodermal tumors of the uterus (A Gynecologic Oncology Group Study). 1989;161:309-12
- , Rogers RE, Roth LM, Ehrlich CE. Aggressive angio-myxoma first diagnosed as levator hernia. 1989;161:73-5
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- , Quirke P, Wells M. Flow cytometry of normal, hyperplastic, and malignant human endometrium. 1989;161:487-92
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- , Sampson JE, Parisi VM, Creasy RK. Routine umbilical cord blood gas determinations? 1989;161:600-5
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- Tipton RE, Tharapel AT, Chang H-HT, Simpson JL, Elias S. Rapid chromosome analysis with spontaneously dividing cells derived from umbilical cord blood (fetal and neonatal). 1989;161:1546-8
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- Valenzuela GJ. Is a decrease in plasma oncotic pressure enough to explain the edema of pregnancy? 1989;161:1624-7
- , Forbes HW, Alonso JG. Effect of whole-body pH changes on thoracic duct lymph flow in anesthetized sheep. 1989;161:1566-70
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- Veldhuis JD, Evans WS, Stumpf PG. Mechanisms that subserve estradiol's induction of increased prolactin concentrations: evidence of amplitude modulation of spontaneous prolactin secretory bursts. 1989;161:1149-58
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- , Coulter S. Increased placental progesterone may cause decreased placental prostacyclin production in preeclampsia. 1989;161:1586-92
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- Warren WB, Timor-Tritsch I, Peisner DB, Raju S, Rosen MG. Dating the early pregnancy by sequential appearance of embryonic structures. 1989;161:747-53
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- , Heilskov J, Pelzer G, Grant S, Wenstrom K, Williamson RA. Normal values for human umbilical venous and amniotic fluid pressures and their alteration by fetal disease. 1989;161:714-7
- , Martinez E, Chestnut DH, Ghodsi A. Effect of pregnancy on uterine and carotid artery response to norepinephrine, epinephrine, and phenylephrine in vessels with documented functional endothelium. 1989;161:1605-10
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- , Gabrielli S, Reece EA, Roberts JA, Salafia C, Hobbins JC. Ultrasonographic criteria for the prenatal diagnosis of placental chorionicity in twin gestations. 1989;161:1540-2
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Duplex Doppler ultrasonographic evaluation of the fetal renal artery in normal and abnormal fetuses (Veille and Kanaan). 1989;161:1502-7

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Low amniotic pressure in oligohydramnios. Is this the cause of pulmonary hypoplasia? (Nicolini et al). 1989;161:1098-101 (Clin. opinion)

Normal amniotic fluid volume changes throughout pregnancy (Brace and Wolf). 1989;161:382-8

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Saline solution amnioinfusion for oligohydramnios after premature rupture of the membranes (Imanaka et al). 1989;161:102-6

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Effect of a 48-hour Δ^4 -androstenedione infusion on the pregnant rhesus monkey in the last third of gestation: changes in maternal plasma estradiol concentrations and myometrial contractility (Figueroa et al). 1989;161:481-6

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Biosynthesis and physiologic effects of estrogen and pathophysiologic effects of estrogen deficiency: a review (Utian). 1989;161:1828-31 (Symposium)

Estrogens, deficiency

Biosynthesis and physiologic effects of estrogen and pathophysiologic effects of estrogen deficiency: a review (Utian). 1989;161:1828-31 (Symposium)

Decreased in vitro production of 6-keto-prostaglandin $F_{1\alpha}$ by uterine arteries from postmenopausal women (Steinleitner et al). 1989;161:1677-81

Estrogen replacement therapy: an overview (Mishell). 1989;161:1825-7 (Symposium)

Estrogens, physiology

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Estrogens, therapeutic use

Biosynthesis and physiologic effects of estrogen and pathophysiologic effects of estrogen deficiency: a review (Utian). 1989;161:1828-31 (Symposium)

The cancer question: an overview of recent epidemiologic and retrospective data (Henderson). 1989;161:1859-64 (Symposium)

Compliance considerations with estrogen replacement: withdrawal bleeding and other factors (Hahn). 1989;161:1854-8 (Symposium)

Estrogen replacement and cardiovascular disease: serum lipids and blood pressure effects (Hazzard). 1989;161:1847-53 (Symposium)

Estrogen replacement therapy: indications, contraindications, and agent selection (Notelovitz). 1989;161:1832-41 (Symposium)

Estrogen replacement therapy: an overview (Mishell). 1989;161:1825-7 (Symposium)

Estrogen replacement therapy: what the future holds (Hammond). 1989;161:1864-8 (Symposium)

- Estrogens in the prevention of osteoporosis in postmenopausal women (Genant et al). 1989;161:1842-6 (Symposium)
- Monitoring skeletal response to estrogen (Mazess et al). 1989;161:843-8 (Clin opinion)
- Twin pregnancy in premature ovarian failure after estrogen treatment: a case report (Tang and Sawers). 1989;161:172-3
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- Effects of fetal sex and dexamethasone on preterm maternal serum concentrations of human chorionic gonadotropin, progesterone, estrone, estradiol, and estriol (Haning et al). 1989;161:1549-53
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- The challenge of change revisited (Greiss). 1989;161:505-9 (Pres. address)
- Court-ordered cesarean section: an analysis of ethical concerns in compelling cases (Elkins et al). 1989;161:150-4
- Ethnic groups**
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- The effects of maternal exercise on early pregnancy outcome (Clapp). 1989;161:1453-7
- Exercise prescription in pregnancy: weight-bearing versus non-weight-bearing exercise (Artal et al). 1989;161:1464-9
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- Randomized trial of diet versus diet plus cardiovascular conditioning on glucose levels in gestational diabetes (Jovanovic-Peterson et al). 1989;161:415-9
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- False positive reactions**
- Specifics of specificity and sensitivity (Kadar) (Letter); (Kollins) (Reply). 1989;161:1416-7
- Fatty acids**
- Absorption of oral progesterone is influenced by vehicle and particle size (Hargrove et al). 1989;161:948-51
- Prolonged hyperinsulinemia reduces plasma fatty acid levels in the major lipid groups in fetal sheep (Ogburn et al). 1989;161:728-32
- Fatty liver**
- Elevated liver enzymes and thrombocytopenia in the third trimester of pregnancy: an unusual case report and a review of the literature (Hannah et al). 1989;161:322-3
- Femur**
- The efficacy of fetal sonographic biometry in Down syndrome screening (Peters et al). 1989;161:297-300
- Race and gender factors omitted from results (Ansbacher) (Letter); (Goldstein) (Reply). 1989;161:502-3

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- Recurrence of functional ovarian cysts after laparoscopic fenestration (De Wilde). 1989;161:839 (Letter)

Fentanyl

- Fentanyl citrate analgesia during labor (Rayburn et al). 1989;161:202-6

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- Role of ferritin supported in diagnosis of anemias of pregnancy (Goodlin) (Letter); (Schifman) (Reply). 1989;161:258-9

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- Fertility after ectopic pregnancy (Mitchell et al). 1989;161:576-80
- Gestational diabetes in the BHE rat: influence of dietary fat (Bue et al). 1989;161:234-40
- Lymphocyte activity in the presence of peritoneal fluid from fertile women and infertile women with and without endometriosis (Hill and Anderson). 1989;161:861-4
- Subsequent fertility in women who undergo cardiac surgery (Nunley et al). 1989;161:573-6

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- Significance of D-mannose as a sperm receptor site on the zona pellucida in human fertilization (Mori et al). 1989;161:207-11

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- Cervical pregnancy after in vitro fertilization and embryo transfer (Weyerman et al). 1989;161:1145-6
- Effects of platelet activating factor on mouse oocyte fertilization in vitro (Minhas et al). 1989;161:1714-7
- Ovarian hyperstimulation presenting as acute hydrothorax after in vitro fertilization (Kingsland et al). 1989;161:381-2
- Semen predictors of in vitro fertilization and embryo cleavage (Daya et al). 1989;161:1284-9

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- Effects of cephalic hypotension, hypertension, and barbiturates on fetal cerebral blood flow and metabolism (Hohimer and Bissonnette). 1989;161:1344-51

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- Blood gases, pH, and lactate in appropriate- and small-for-gestational-age fetuses (Nicolaidis et al). 1989;161:996-1001
- Clinical management of the fetus with markedly diminished umbilical artery end-diastolic flow (Divon et al). 1989;161:1523-7
- Cordocentesis in the diagnosis of intrauterine starvation (Economides et al). 1989;161:1004-8
- Cordocentesis in the investigation of fetal erythropoiesis (Nicolaidis et al). 1989;161:1197-200
- Detection of fetal blood (Leiberman et al) (Letter); (Cardwell) (Reply). 1989;161:257-8
- Doppler assessment of the fetal and uteroplacental circulation during nifedipine therapy for preterm labor (Mari et al). 1989;161:1514-8
- Doppler assessment of the pulsatility index of the middle cerebral artery during constriction of the fetal ductus arteriosus after indomethacin therapy (Mari et al). 1989;161:1528-31
- Duplex Doppler ultrasonographic evaluation of the fetal renal artery in normal and abnormal fetuses (Veille and Kanaan). 1989;161:1502-7

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- Effect of acute intravascular volume expansion on human fetal prostaglandin concentrations (Weiner and Robillard). 1989;161:1494-7
- Effect of diagnostic and therapeutic cordocentesis on maternal serum α -fetoprotein concentration (Weiner et al). 1989;161:706-8
- The effect of intravascular transfusion on umbilical venous pressure in anemic fetuses with and without hydrops (Weiner et al). 1989;161:1498-501
- Fetal blood gas analysis from cordocentesis for abnormal fetal heart rate patterns (Shah and Boehm). 1989;161:374-6
- Fetal hyperinsulinism in anencephaly (Hubinont et al). 1989;161:306-7
- Fetal intermediate lobe is stimulated by parturition (Facchinetti et al). 1989;161:1267-70
- Human fetal tricuspid and mitral deceleration time: changes with normal pregnancy and intrauterine growth retardation (Reed et al). 1989;161:1532-5
- Maternal and fetal blood flow velocity waveforms in patients with preterm labor: relationship to outcome (Brar et al). 1989;161:1519-22
- Normal values for human umbilical venous and amniotic fluid pressures and their alteration by fetal disease (Weiner et al). 1989;161:714-7
- Plasma atrial natriuretic peptide in human fetus: response to intravascular blood transfusion (Panos et al). 1989;161:357-61
- Prediction of hematocrit decline after intravascular fetal transfusion (MacGregor et al). 1989;161:1491-3
- Prolactin levels in umbilical cord blood of human infants: relation to gestational age, maternal complications, and neonatal lung function (Parker et al). 1989;161:795-802
- Rapid chromosome analysis with spontaneously dividing cells derived from umbilical cord blood (fetal and neonatal) (Tipton et al). 1989;161:1546-8
- Routine umbilical cord blood gas determinations? (Thorp et al). 1989;161:600-5
- Techniques differ in use of Doppler ultrasonography (East-erling and Benedetti) (Letter); (Lee and Rokey) (Reply). 1989;161:1748-50
- Thrombocytopenia and cordocentesis clarifications requested (Weiner). 1989;161:1091-2 (Letter)
- Transfer of prostaglandins to the fetus after prostaglandin E_2 vaginal pessary administration (MacKenzie et al). 1989;161:920-3

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- Evaluation of pulsed Doppler echocardiography for measurement of aortic blood flow in the fetal lamb (Veille et al). 1989;161:1610-4
- Fetal blood volume, urine flow, swallowing, and amniotic fluid volume responses to long-term intravascular infusions of saline (Brace). 1989;161:1049-54
- Intrauterine growth retardation and the circulatory responses to acute hypoxemia in fetal sheep (Block et al). 1989;161:1576-9
- Ovine fetal cardiovascular responses to packed red blood cell transfusions (Brace). 1989;161:1367-74

Fetal blood, immunology

- Fetal cardiac output in the isoimmunized pregnancy: a pulsed Doppler-echocardiographic study of patients undergoing intravascular intrauterine transfusion (Copel et al). 1989;161:361-5

- Fetal heart rate patterns in red blood cell isoimmunized pregnancies (Nicolaidis et al). 1989;161:351-6
- Maternal-fetal glucose gradient in normal pregnancies and in pregnancies complicated by alloimmunization and fetal growth retardation (Nicolini et al). 1989;161:924-7
- Pulsed Doppler flow-velocity waveforms in the prediction of fetal hematocrit of the severely isoimmunized pregnancy (Copel et al). 1989;161:341-4

Fetal death

- Analysis of fetal loss after transcervical chorionic villus sampling: a review of 719 patients (Wade and Young). 1989;161:513-9
- Comparison of predelivery versus postdelivery Kleihauer-Betke stains in cases of fetal death (Owen et al). 1989;161:663-6
- Does midtrimester ΔOD_{450} of amniotic fluid reflect severity of Rh disease? (Ananth and Queenan). 1989;161:47-9
- Fetal death: diagnosis and management (Merlob). 1989;161:254 (Letter)
- Fetal death from chlamydial infection across intact amniotic membranes (Thorp et al). 1989;161:1245-6
- Fetomaternal hemorrhage: possible cause of fetal distress and death (Cardwell and Snyder) (Letter); (Biddinger et al) (Reply). 1989;161:1744
- Missed abortion: Still appropriate terminology? (Pridjian and Moawad). 1989;161:261-2 (Clin. opinion)
- Perinatal death as a result of social factors (Fribourg) (Letter); (Delke and Minkoff) (Reply). 1989;161:1748
- Predictive value of increased plasma levels of fibronectin in gestational hypertension (Ballegeer et al). 1989;161:432-6
- Predictive values, relative risks, and overall benefits of high and low maternal serum α -fetoprotein screening in singleton pregnancies: new epidemiologic data (Milunsky et al). 1989;161:291-7
- Pregnancy loss in a small chorionic villus sampling series (Clark et al). 1989;161:301-2
- The prevalence and biologic significance of lupus anticoagulant and anticardiolipin antibodies in a general obstetric population (Lockwood et al). 1989;161:369-73
- Twin-to-twin transfusion syndrome: What are appropriate diagnostic criteria? (Danskin and Neilson). 1989;161:365-9

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- Effect of inhibiting prostaglandin synthesis in pregnant sheep with 4-aminoantipyrine under normothermic and hyperthermic conditions (Andrianakis et al). 1989;161:241-7

Fetal development

- Concurrence of mouthing movement and rapid eye movement/non-rapid eye movement phases with advance in gestation of the human fetus (Horimoto et al). 1989;161:344-51
- Dating the early pregnancy by sequential appearance of embryonic structures (Warren et al). 1989;161:747-53
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- Fetal and neonatal cardiovascular complications from β -sympathomimetic therapy for tocolysis (Katz and Seeds). 1989;161:1-9 (Clin. opinion)
- Fetal radius length: a critical evaluation of race as a factor in gestational age assessment (Hill et al). 1989;161:193-9
- Individual growth curve standards in twins: prediction of

- third-trimester growth and birth characteristics (Stefos et al). 1989;161:179-83
- Long bone growth in fetuses with Down syndrome (Fitz-Simmons et al). 1989;161:1174-7
- A longitudinal study of the relationship between placental and fetal growth as measured by ultrasonography (Wolf et al). 1989;161:1140-5
- Low amniotic pressure in oligohydramnios Is this the cause of pulmonary hypoplasia? (Nicolini et al). 1989;161:1098-101 (Clin. opinion)
- Normal amniotic fluid volume changes throughout pregnancy (Brace and Wolf). 1989;161:382-8
- Plasma amino acids in appropriate- and small-for-gestational-age fetuses (Economides et al). 1989;161:1219-27
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- In vivo administration of allopurinol affects ovulation and early embryonic development in rabbits (Miyazaki et al). 1989;161:1709-14
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- First-trimester and early second-trimester diagnosis of nuchal cystic hygroma by transvaginal sonography: diverse prognosis of the septated from the nonseptated lesion (Bronshtein et al). 1989;161:78-82
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- In utero cocaine exposure: observations of fetal behavioral state may predict neonatal outcome (Hume et al). 1989;161:685-90
- Isolation of human immunodeficiency virus from the placenta or from maternal blood contaminating the placenta? (Greenspoon and Settlege) (Letter); (Hill et al) (Reply). 1989;161:501-2
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- Fetal blood gas analysis from cordocentesis for abnormal fetal heart rate patterns (Shah and Boehm). 1989;161:374-6
- Fetomaternal hemorrhage possible cause of fetal distress and death (Cardwell and Snyder) (Letter); (Biddinger et al) (Reply). 1989;161:1744
- Intrapartum Doppler velocimetry, amniotic fluid volume, and fetal heart rate as predictors of subsequent fetal distress. I. An initial report (Sarno et al). 1989;161:1508-14
- Perinatal factors influencing atrial natriuretic peptide levels in umbilical arterial plasma at the time of delivery (Castro et al). 1989;161:623-7
- Perinatal factors influencing atrial natriuretic peptide levels in umbilical arterial plasma at the time of delivery (Castro et al). (1989;161:623-7). 1989;161:1238 (Correction)
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- Effect of placental laterality on uterine artery resistance and development of preeclampsia and intrauterine growth retardation (Kofinas et al). 1989;161:1536-9
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- Intrauterine growth retardation: standards for diagnosis (Goldenberg et al). 1989;161:271-7 (Clin. opinion)
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Prolongation of pregnancy and survival of twin B after loss of twin A at 21 weeks' gestation (Feichtinger et al). 1989;161:891-3

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Fetal hyperinsulinism in anencephaly (Hubinont et al). 1989;161:306-7

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The effect of elevated blood glucose on the electroencephalogram and cerebral metabolism during short-term brain ischemia in fetal sheep (Chao et al). 1989;161:221-8

Effect of prolonged hypoxemia on fetal heart rate accelerations and decelerations in sheep (Bocking et al). 1989;161:722-7

Effects of cephalic hypotension, hypertension, and barbiturates on fetal cerebral blood flow and metabolism (Hohimer and Bissonnette). 1989;161:1344-51

Fetal vascular responses to maternal nicardipine administration in the hypertensive ewe (Parisi et al). 1989;161:1035-9

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Doppler assessment of the pulsatility index of the middle cerebral artery during constriction of the fetal ductus arteriosus after indomethacin therapy (Mari et al). 1989;161:1528-31

Doppler umbilical artery waveform indices normal values from fourteen to forty-two weeks (Hendricks et al). 1989;161:761-5

Duplex Doppler ultrasonographic evaluation of the fetal renal artery in normal and abnormal fetuses (Veille and Kanaan). 1989;161:1502-7

Evaluation of pulsed Doppler echocardiography for measurement of aortic blood flow in the fetal lamb (Veille et al). 1989;161:1610-4

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Maternal and fetal blood flow velocity waveforms in patients with preterm labor: relationship to outcome (Brar et al). 1989;161:1519-22

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Treatment of oophorectomized guinea pigs with intrauterine 17 β -estradiol pellets may modulate myometrial β -adrenergic receptor binding properties (Hatjis et al). 1989;161:1628-32

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Uterine development and endocrine relationships after menarche (Porcu et al). 1989;161:174-7

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In vivo administration of allopurinol affects ovulation and early embryonic development in rabbits (Miyazaki et al). 1989;161:1709-14

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Vasopressin receptors in human pregnant myometrium and decidua: interactions with oxytocin and vasopressin agonists and antagonists (Ivanisevic et al). 1989;161:1637-43

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Effect of pregnancy on uterine and carotid artery response to norepinephrine, epinephrine, and phenylephrine in vessels with documented functional endothelium (Weiner et al). 1989;161:1605-10

Gestational diabetes in the BHE rat: influence of dietary fat (Bue et al). 1989;161:234-40

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A population-based study of maternal and perinatal outcome in patients with gestational diabetes (Jacobson and Cousins). 1989;161:981-6

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Prematurity among insulin-requiring diabetic gravid women (Greene et al). 1989;161:106-11

Randomized trial of diet versus diet plus cardiovascular conditioning on glucose levels in gestational diabetes (Jovanovic-Peterson et al). 1989;161:415-9

Screening for gestational diabetes (Hunter) (Letter); (Weiner) (Reply). 1989;161:1423-4

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First successful intrauterine pregnancy after treatment of tubal pregnancy with prostaglandin $F_{2\alpha}$ (Egarter and Husleim). 1989;161:904

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Low serum progesterone levels and tubal dysfunction a possible cause of ectopic pregnancy (Pulkkinen and Jaakkola). 1989;161:934-7

Maternal mortality in North Carolina: a forty-year experience (May and Greiss). 1989;161:555-61

Serial human chorionic gonadotropin determinations by fluorimmunoassay for differentiation between intrauterine and ectopic gestation (Lindblom et al). 1989;161:397-400

Spontaneously resorbing ectopic pregnancy: preservation of human chorionic gonadotropin bioactivity despite de-

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Successful treatment of a viable cervical pregnancy with methotrexate (Palti et al). 1989;161:1147-8

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- Gestational diabetes in the BHE rat: influence of dietary fat (Bue et al). 1989;161:234-40

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- Immunoregulatory activity in supernatants from cultures of

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- Vaginosonographic examination Routine procedure? (Furness) (Letter); (Bernaschek and Rudelstorfer) (Reply). 1989;161:499

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- The frequency and management of uterine perforations during first-trimester abortions (Kaali et al). 1989;161:406-8
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Neuromuscular blockade with magnesium sulfate and nifedipine (Snyder and Cardwell). 1989;161:35-6

Number clarification requested (Hatjis) (Letter); (Wilkins and Lynch) (Reply). 1989;161:1746

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Transactions of the ninth annual meeting of the Society of Perinatal Obstetricians. 1989;161:593-833

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Perinatal outcome in very preterm births with twin-twin transfusion syndrome (Shan and Chaffin). 1989;161:1111-3

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Successful twin pregnancy after embryo donation to a patient with XY gonadal dysgenesis (Sauer et al). 1989;161:380-1

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Doppler assessment of the pulsatility index of the middle cerebral artery during constriction of the fetal ductus arteriosus after indomethacin therapy (Mari et al). 1989;161:1528-31

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Effect of placental embolization on the umbilical arterial velocity waveform in fetal sheep (Morrow et al). 1989;161:1055-60

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Enlarged cisterna magna in trisomy 18: prenatal ultrasonographic diagnosis (Thurmond et al). 1989;161:83-5

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Fetal cardiac output in the isoimmunized pregnancy: a pulsed Doppler-echocardiographic study of patients undergoing intravascular intrauterine transfusion (Copel et al). 1989;161:361-5

Fetal liver length in normal and isoimmunized pregnancies (Roberts et al). 1989;161:42-6

Fetal radius length: a critical evaluation of race as a factor in gestational age assessment (Hill et al). 1989;161:193-9

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Discordant twins a prospective study of the diagnostic value of real-time ultrasonography combined with umbilical artery velocimetry (Divon et al). 1989;161:757-60

Doppler umbilical artery waveform indices normal values from fourteen to forty-two weeks (Hendricks et al). 1989;161:761-5

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Perinatal factors influencing atrial natriuretic peptide levels in umbilical arterial plasma at the time of delivery (Castro et al). (1989;161:623-7). 1989;161:1238 (Correction)

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Anal submucosal injection: a new route for drug administration in pelvic malignancies. IV. Submucosal anal injection in the treatment of cancer of uterine cervix—preliminary study (Shafik). 1989;161:69-72

A clinical-pathologic study of mixed müllerian tumors of the uterus over a 16-year period The Medical College of Georgia experience (Gallup et al). 1989;161:533-9

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In vitro release of endothelium-derived relaxing factor by acetylcholine is increased during the guinea pig pregnancy (Weiner et al). 1989;161:1599-605

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